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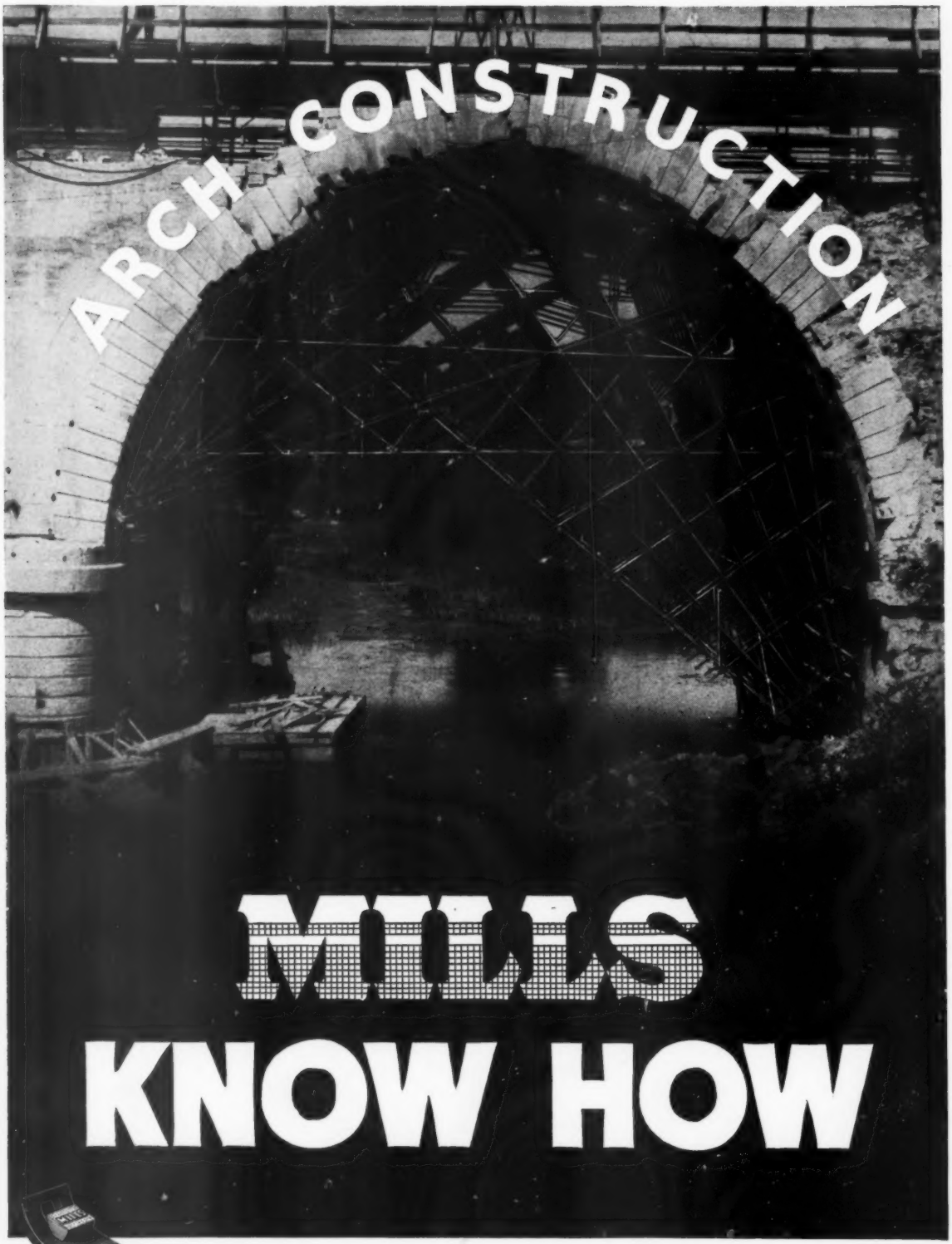
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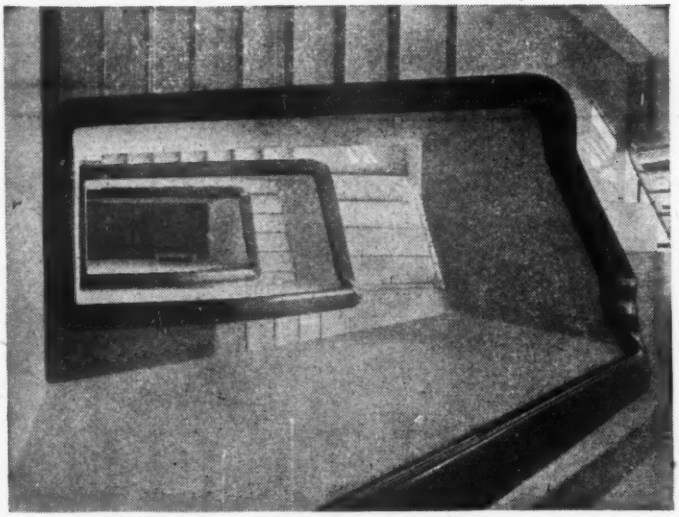
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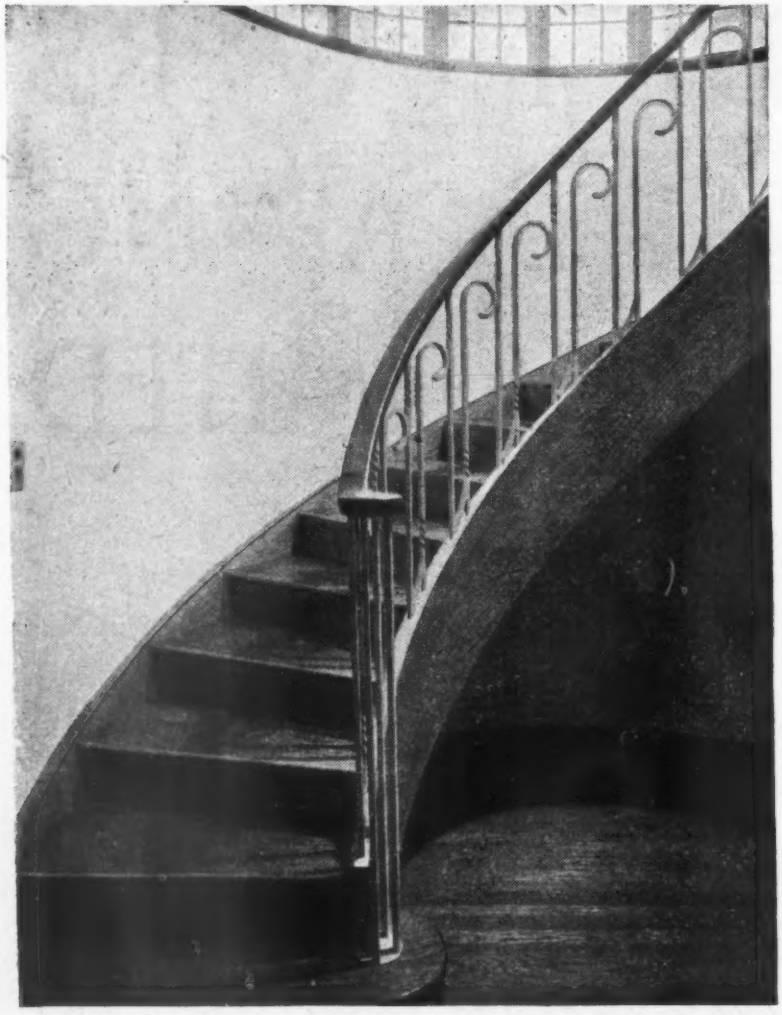
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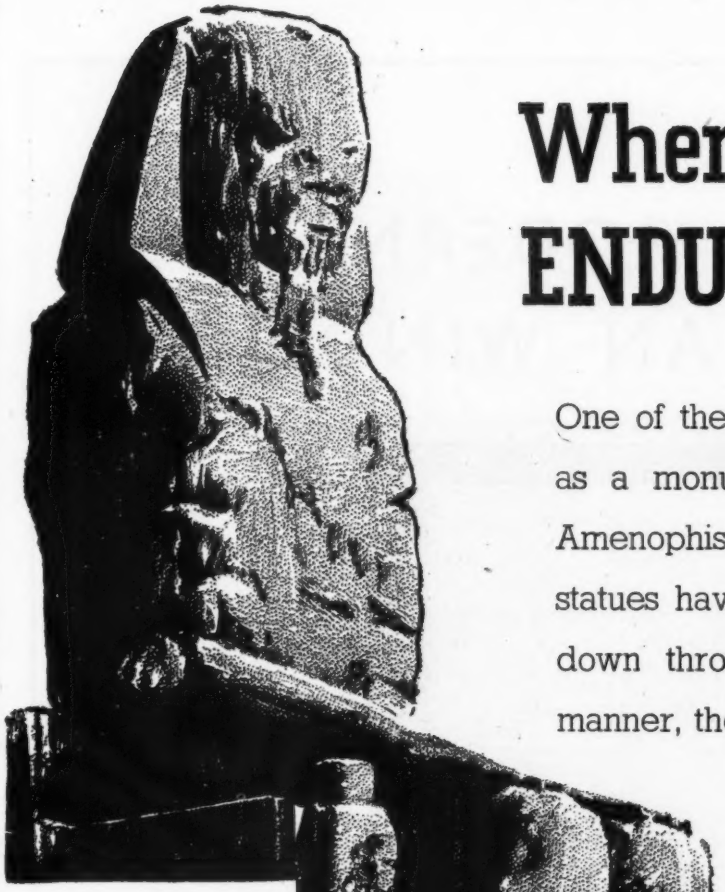
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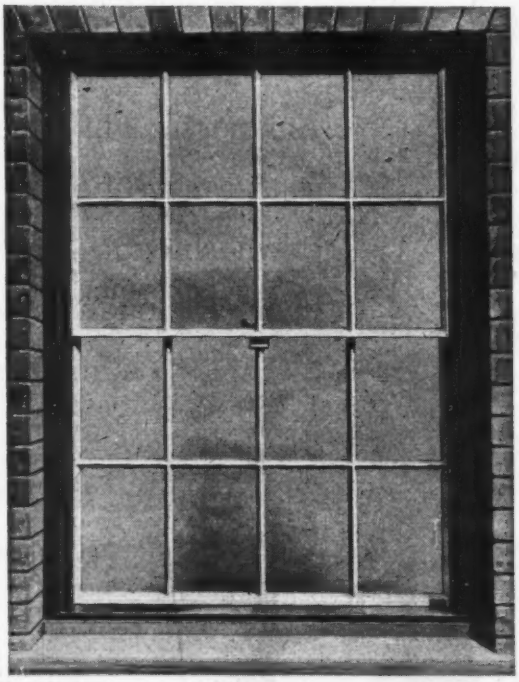
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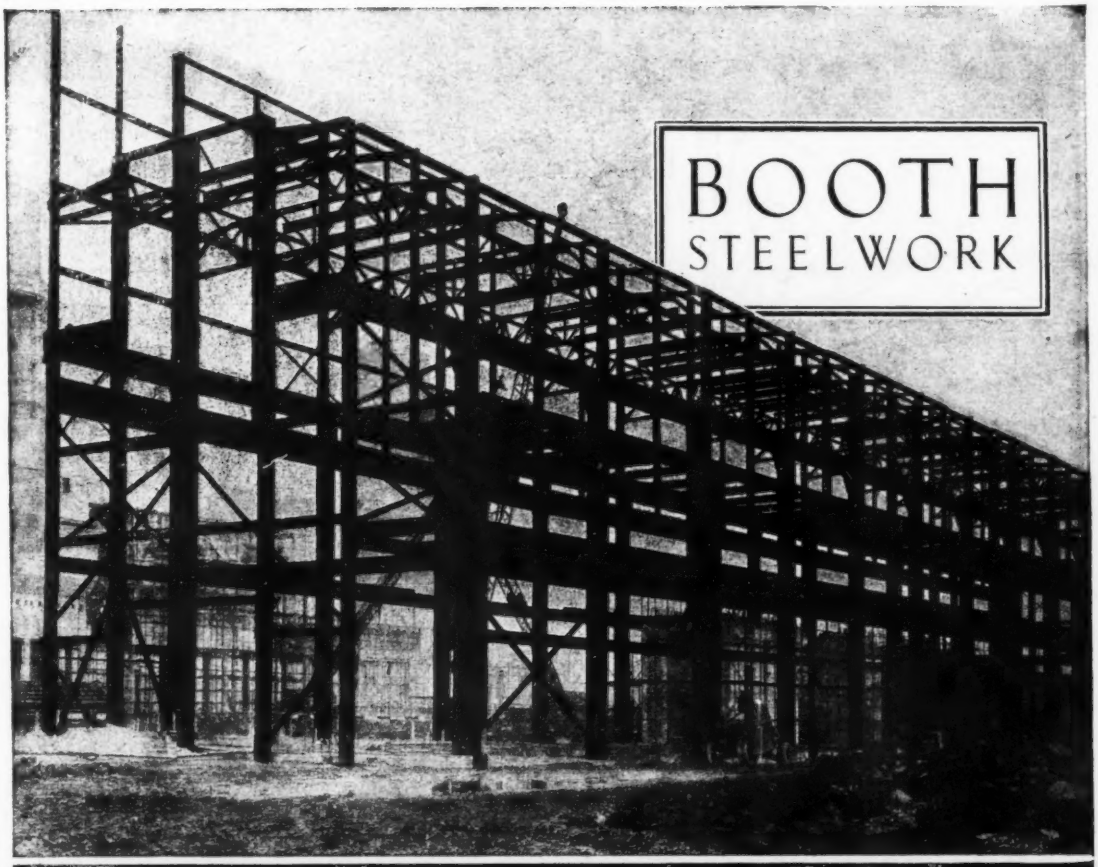


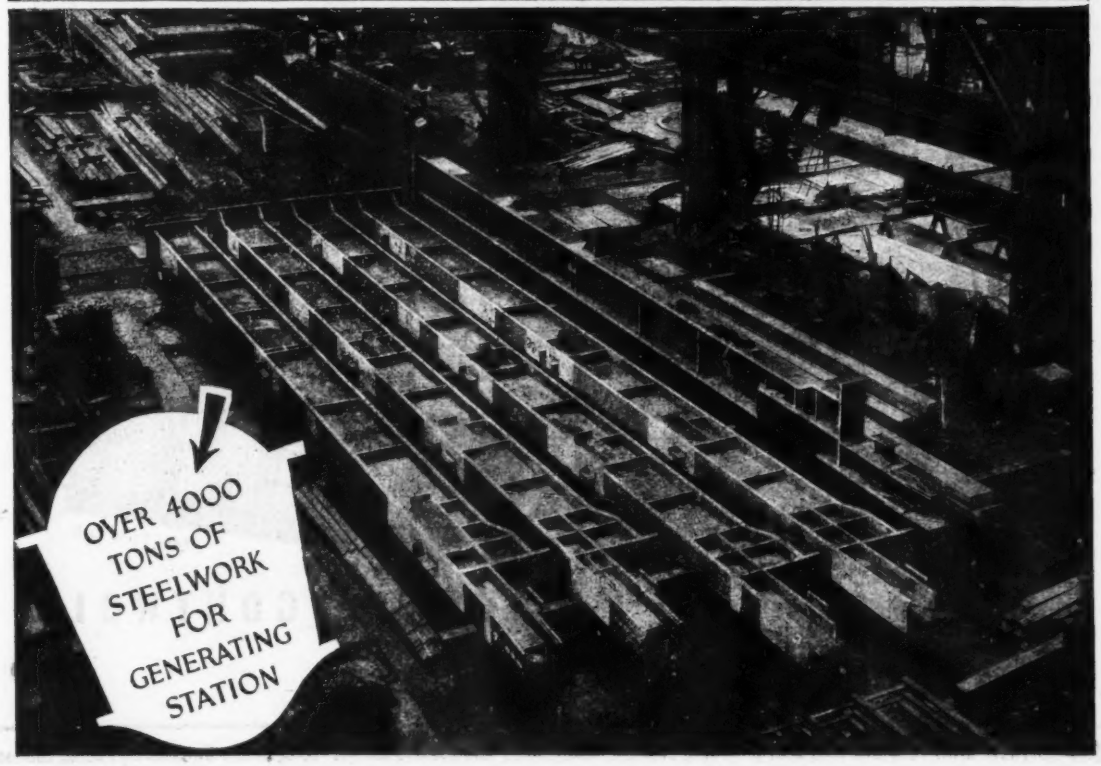
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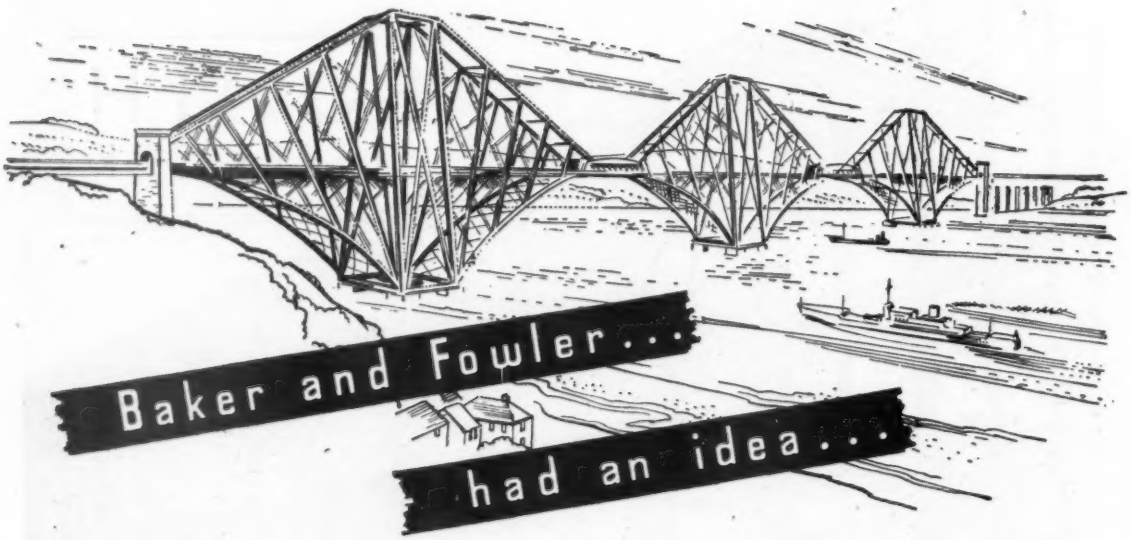
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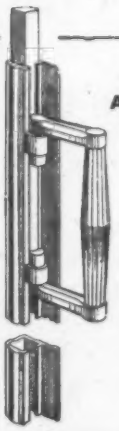
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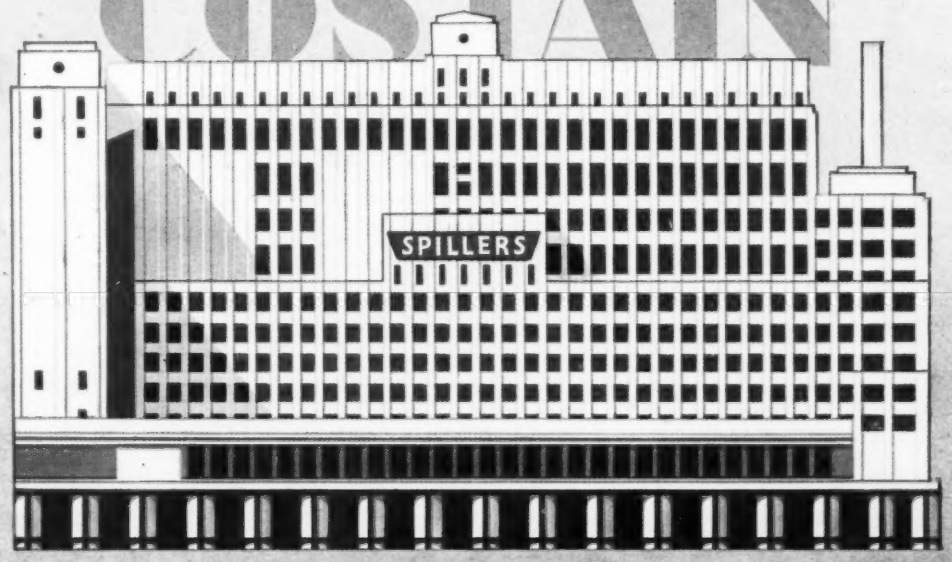
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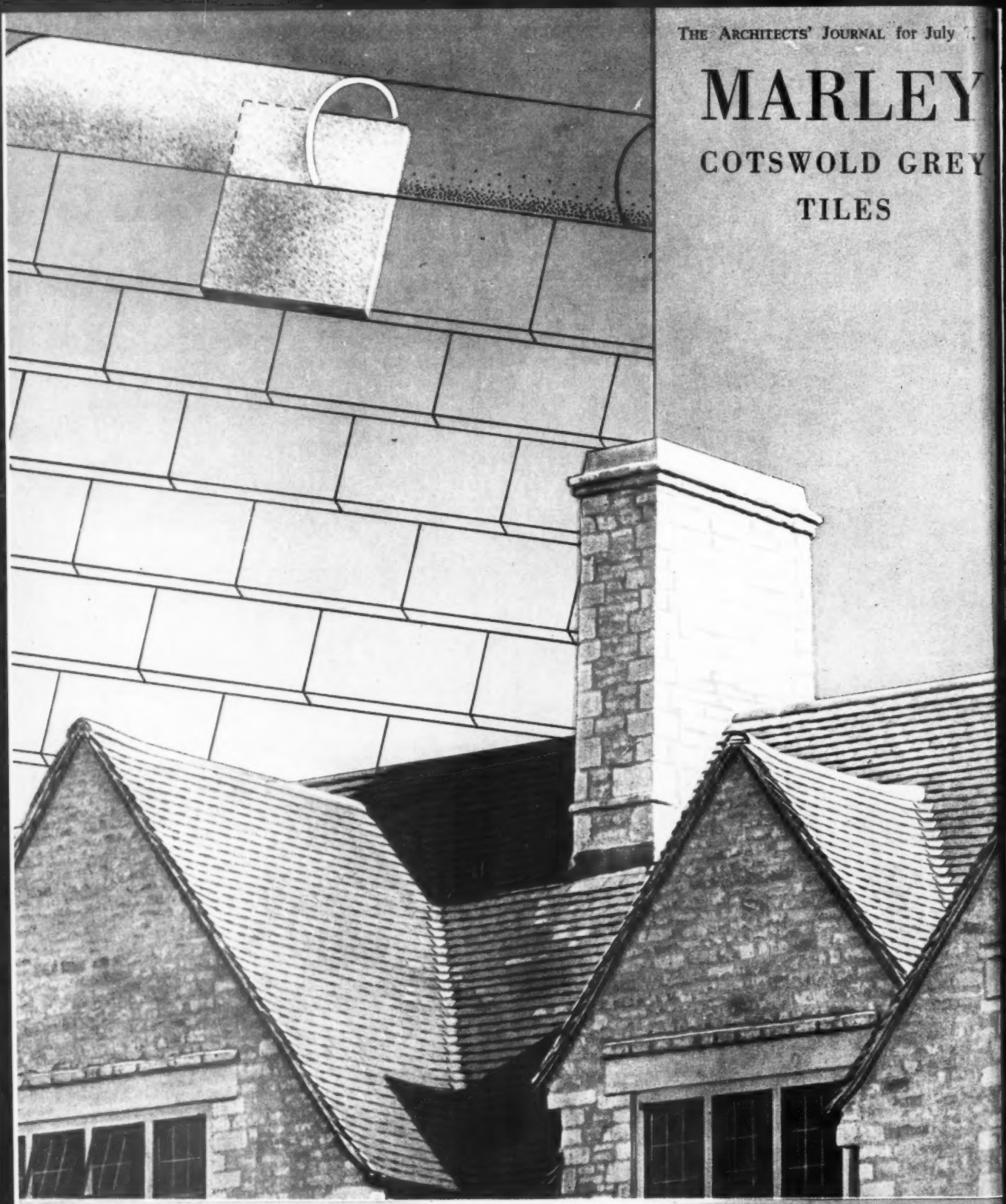
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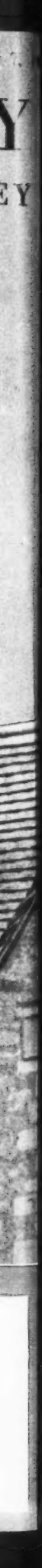
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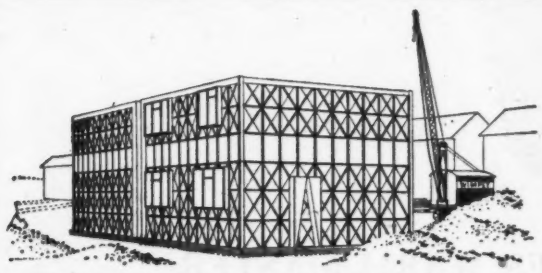
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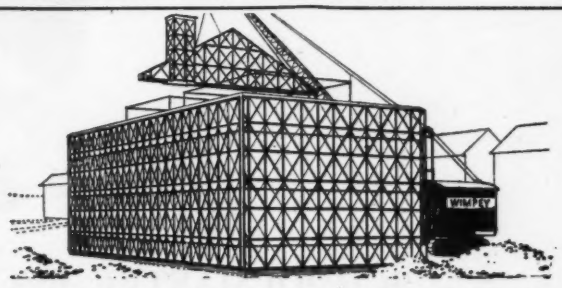
An answer to the housing problem



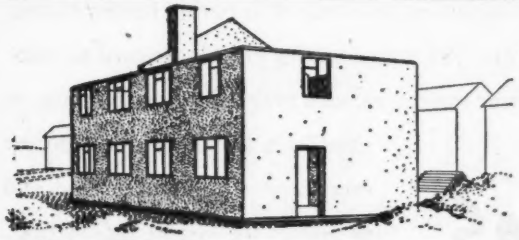
WIMPEY 'NO-FINES' HOUSES: THE DRAWINGS BELOW SHOW THREE MAIN STAGES IN THEIR CONSTRUCTION



1 Internal framework, window and door cores in position.



2 External framework, concrete poured to eaves level, gable framework in course of erection.



3 Completed concrete shell.

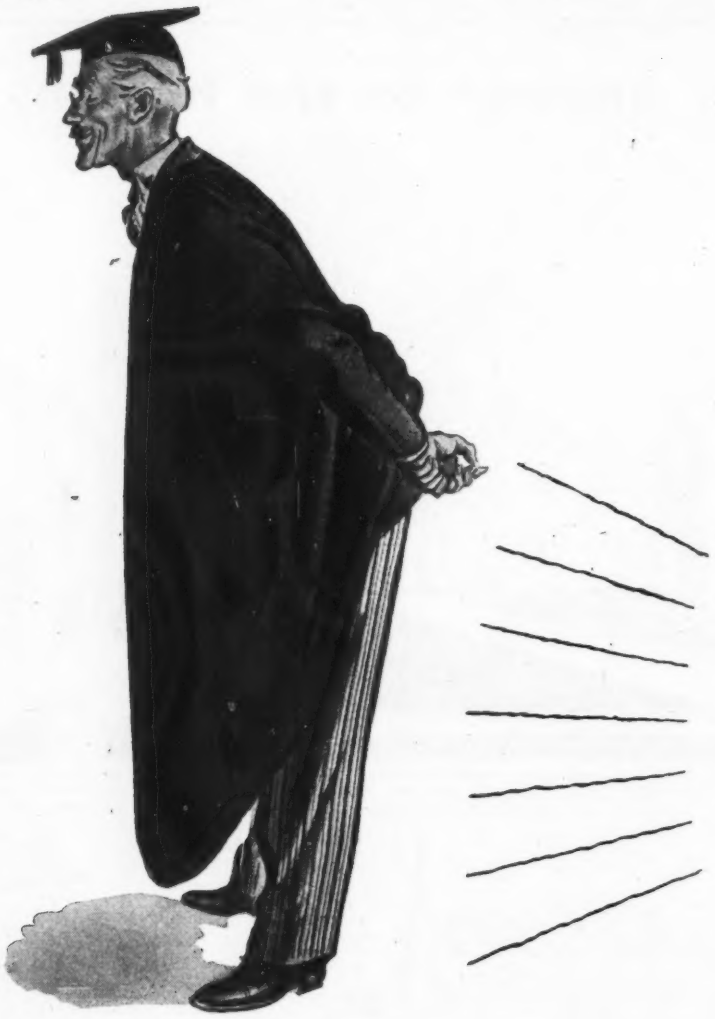
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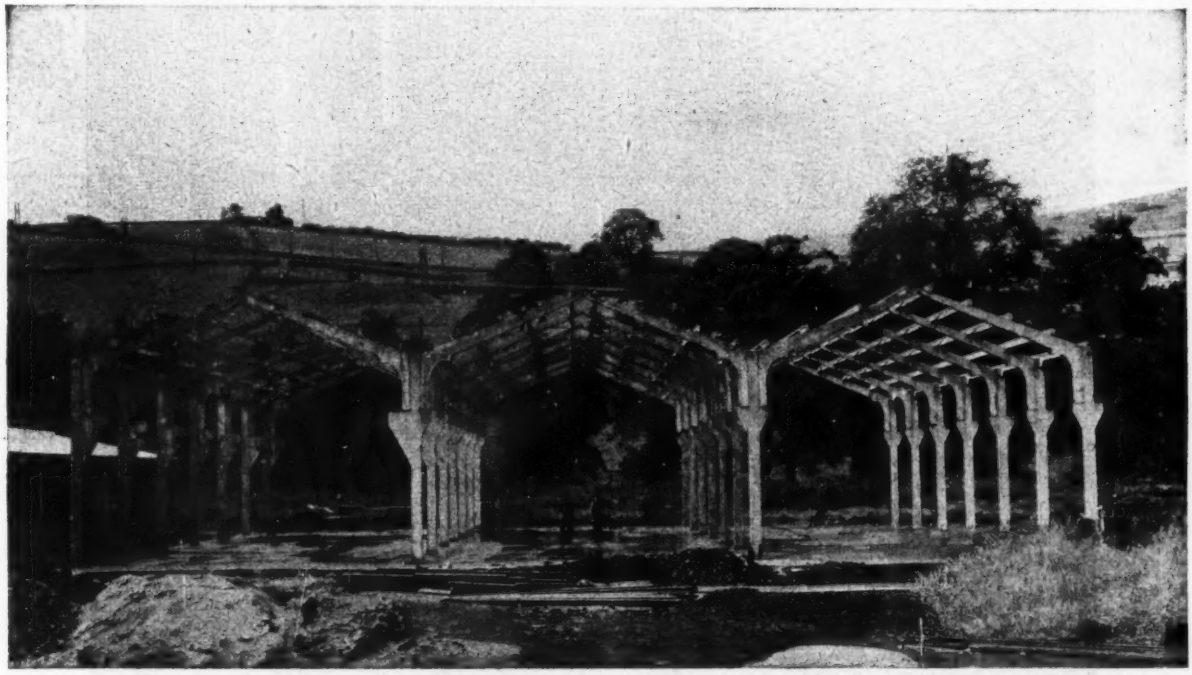
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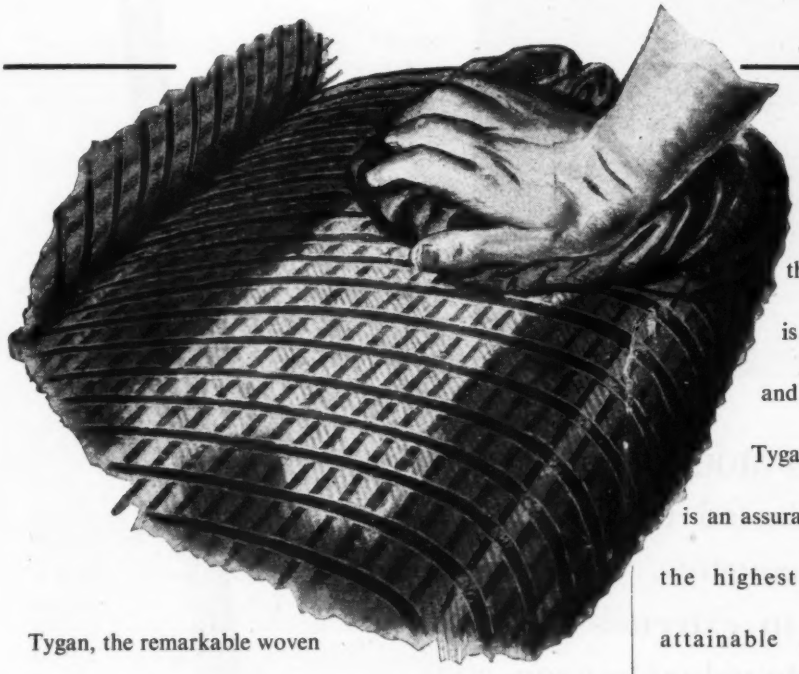
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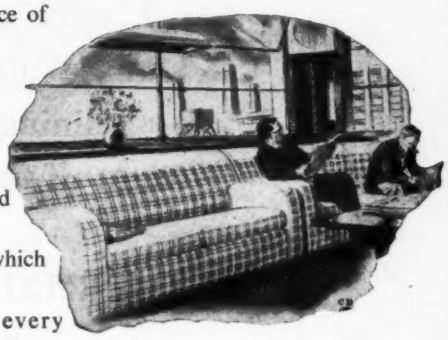
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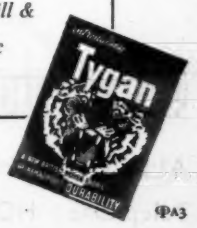
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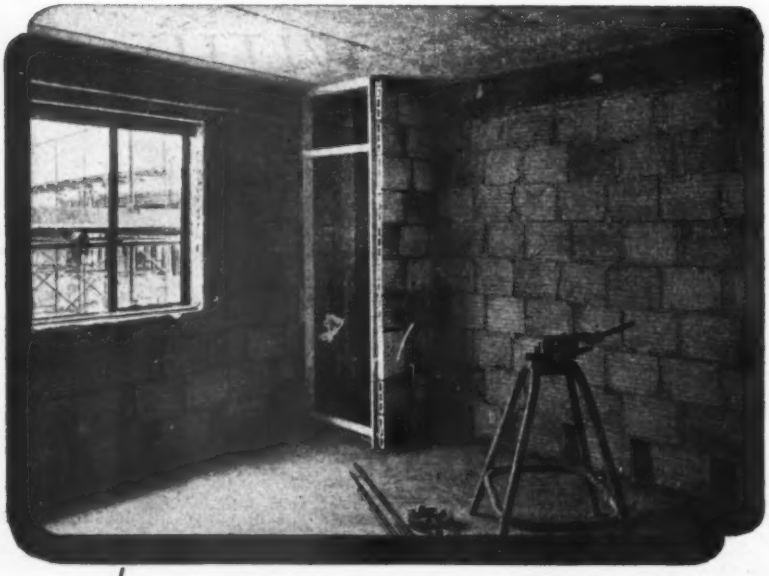
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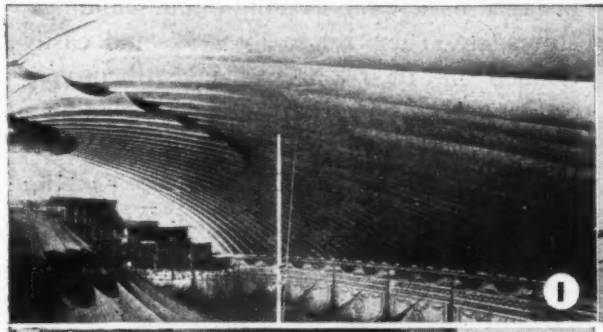
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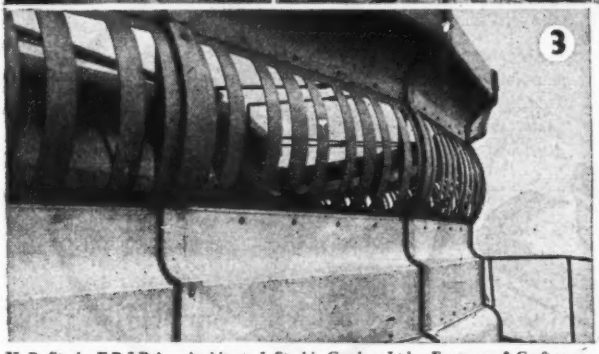
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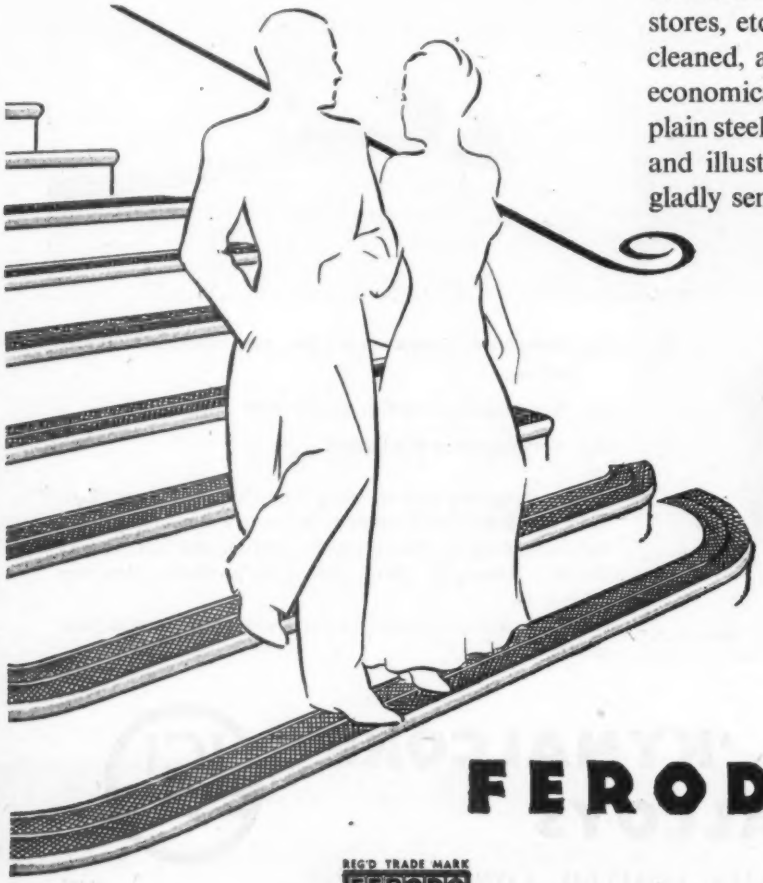
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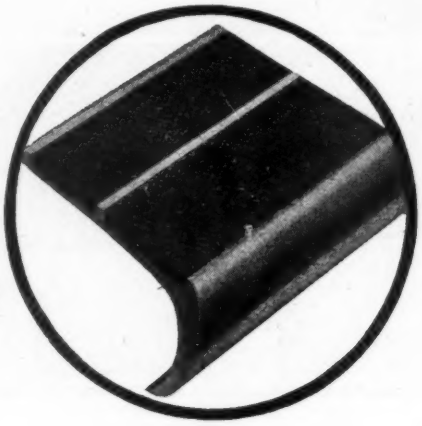
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Telephone : Leeds 30444.

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Telephone : HOLborn 8421.

The Merchant Trading Co., Ltd., Columbia House, Aldwych, London, W.C.2.
Telephone : HOLborn 3291.

Southerns, Ltd., Bold Saw Mills, Widnes, Lancs.
Telephone : Widnes 2641.

John Bland & Co., Ltd., East Moors, Cardiff.
Telephone : Cardiff 2703.

Graham & Wylie, Ltd., Greenhead Saw Mills, Bridgeton, Glasgow, S.E.
Telephone : Bridgeton 2418.

The Metal Agencies Co., Ltd., Colston Street, Bristol, 1.
Telephone : Bristol 21061.

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Telephone : Coventry 3037.

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THE CAPE ASBESTOS COMPANY, LIMITED

Window Lead Sections





for plain or decorative effects . . .

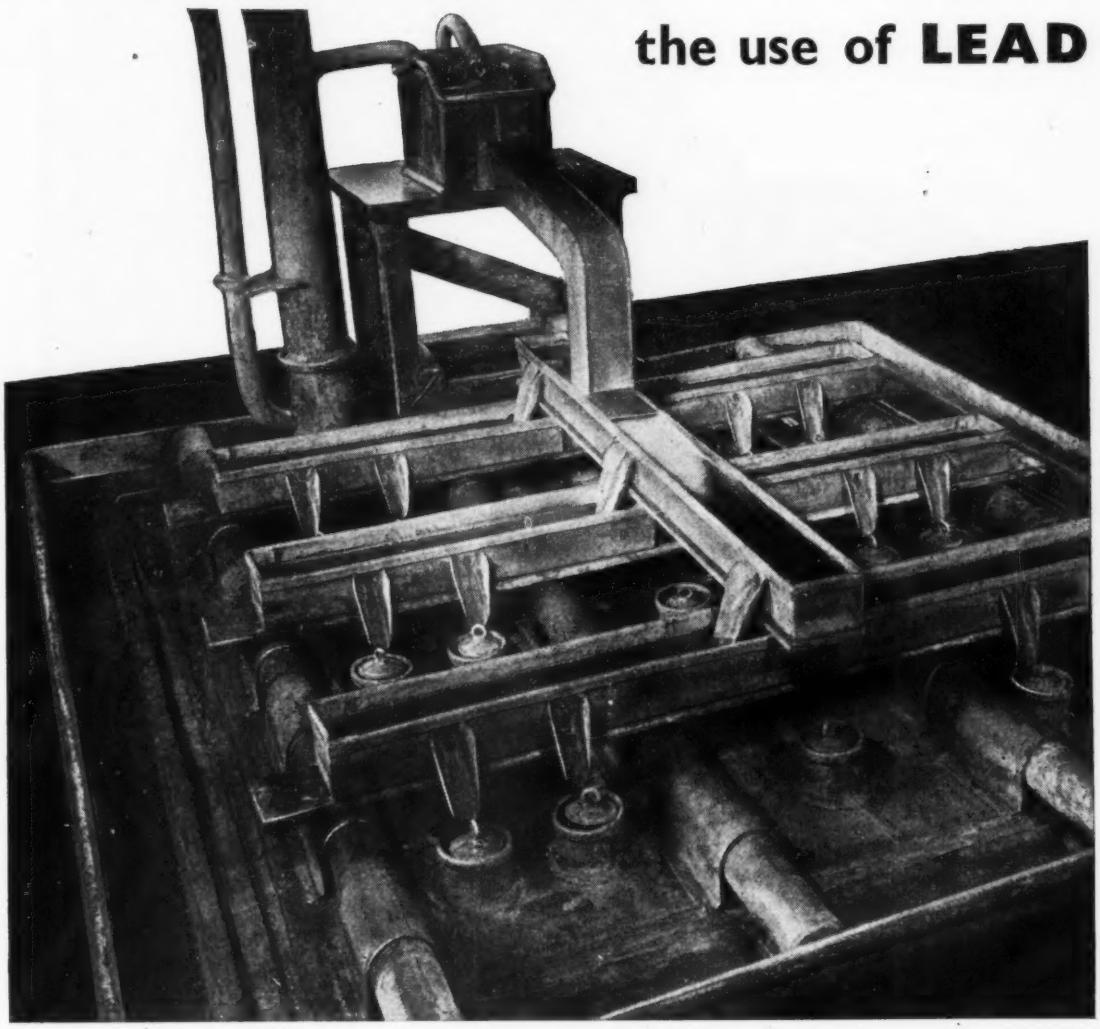
B I C C manufacture a range of extruded lead glazing sections which provide the glazier with the widest possible variety of shapes and sizes. Standard sections are available in plain and reinforced material and the usual length of calm is 6 feet. Special sections can be made to specification if required. For all your window lead work, consult B I C C — the actual makers who will gladly assist you with your problems.

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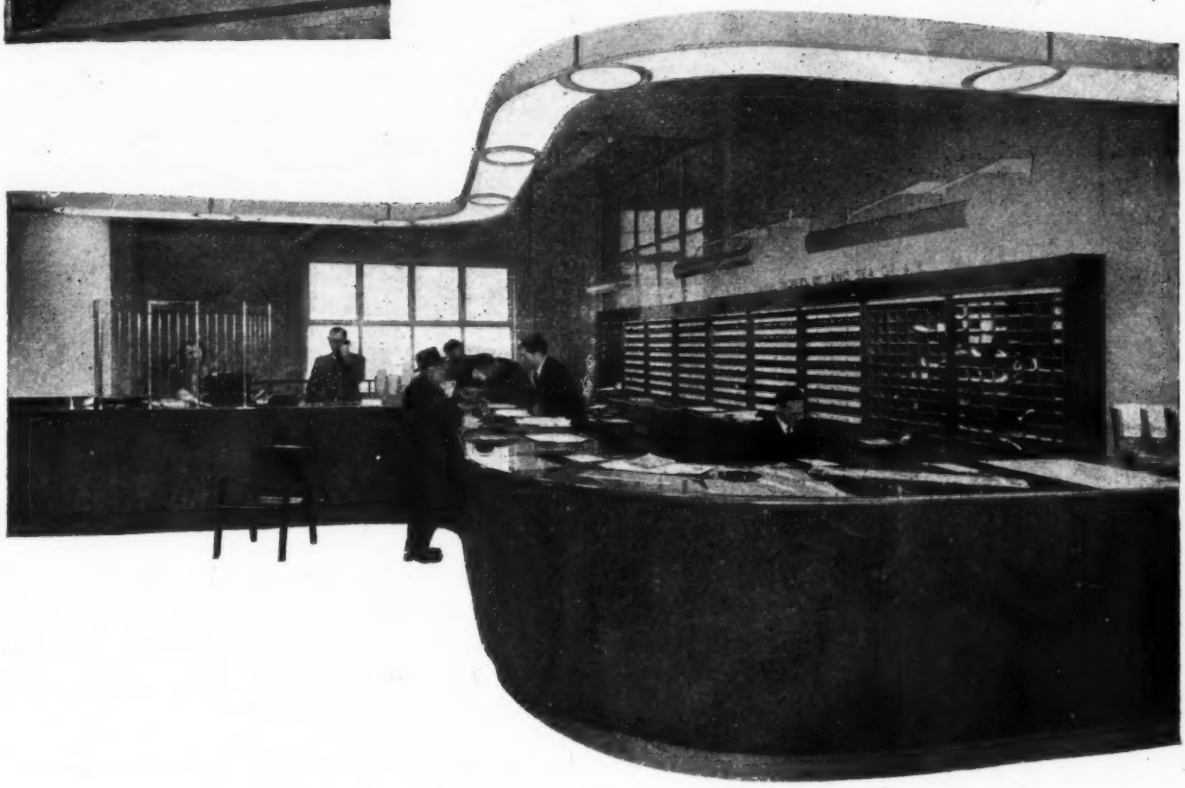
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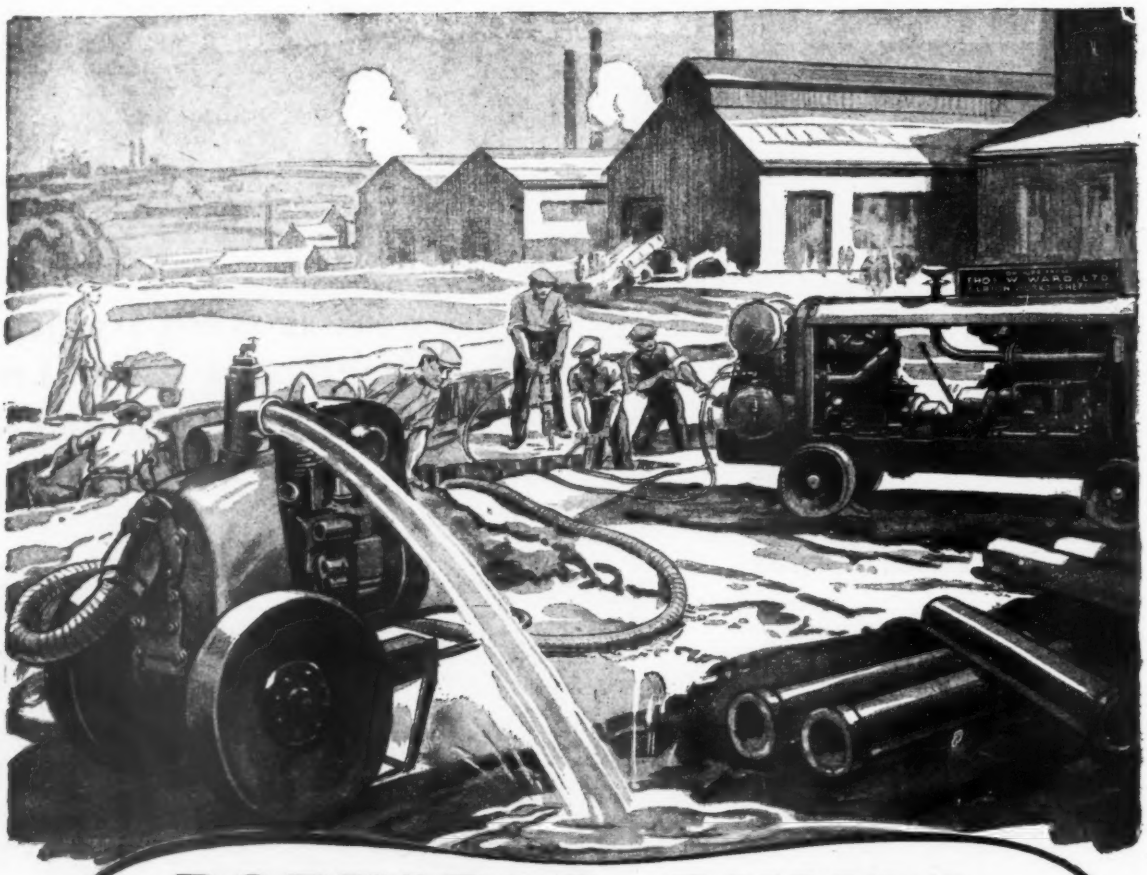
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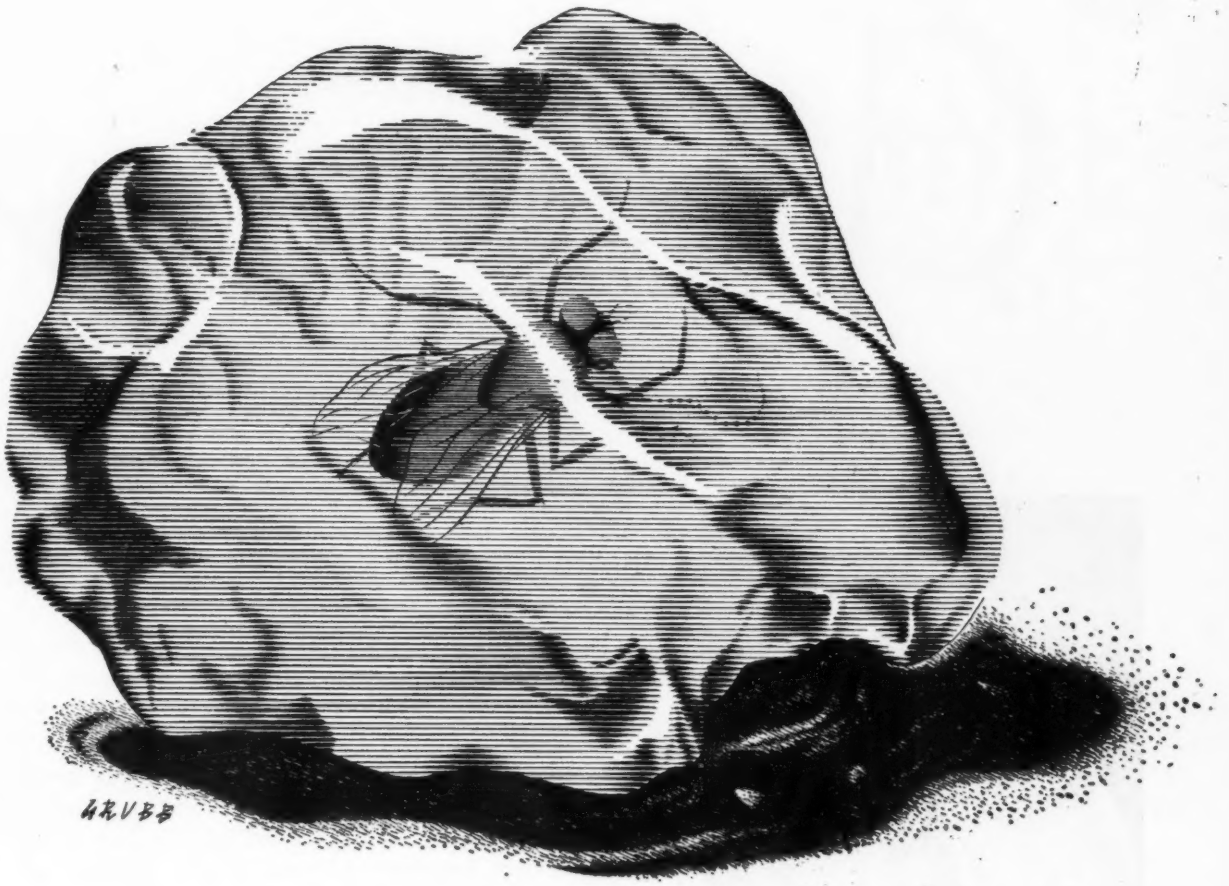
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the fly and the amber



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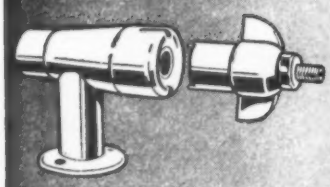
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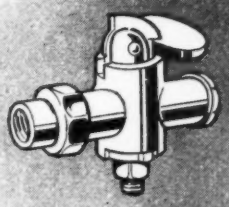
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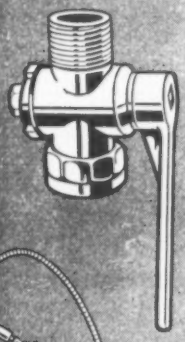
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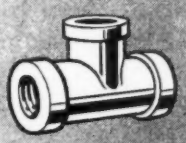
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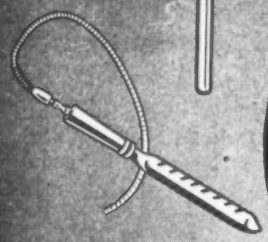




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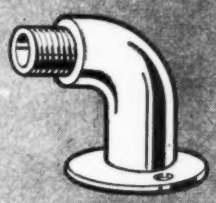






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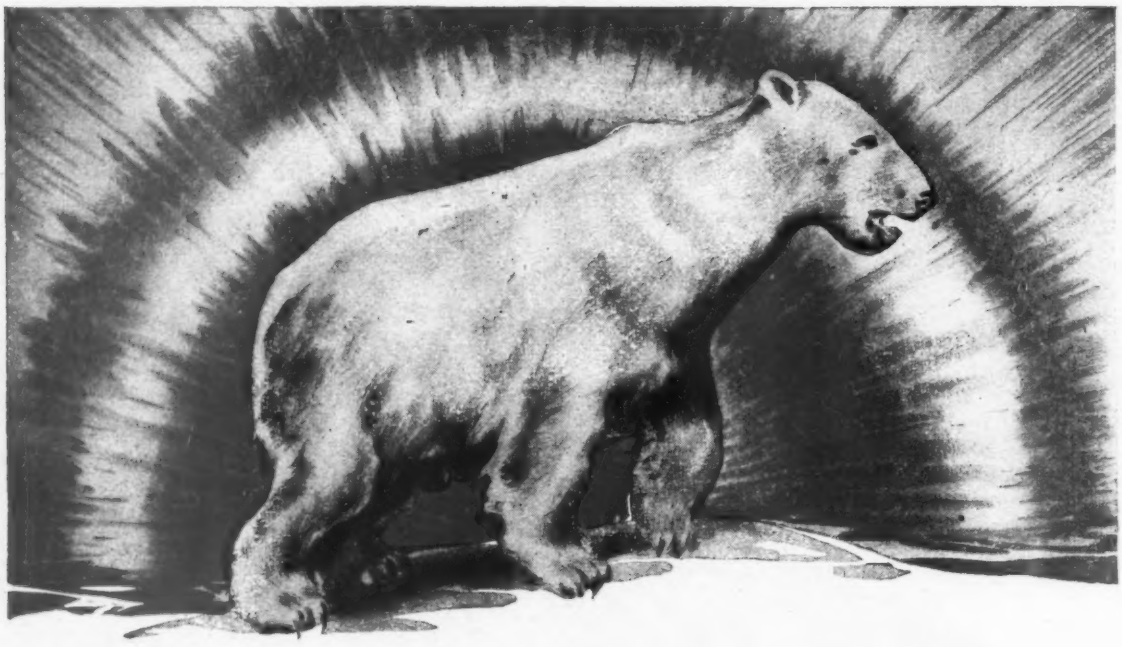
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invest in CELOTEX insulation

CONSTRUCTION		Uninsulated		Under-Purlin insulation		Over-Purlin insulation			
Corrugated Asbestos Cement		1/4"	–	1/4"	–	1/4"	1/4"	–	–
Corrugated Iron		–	22G	–	22G	–	–	22G	22G
Celotex Insulating Board		–	–	–	–	1/2"	1"	1/2"	1"
Air Space/Purlins		–	–	4"	4"	–	–	–	–
Celotex Insulating Board		–	–	1/2"	1/2"	–	–	–	–
Thermal Transmittance 'U'		1.48	1.50	0.31	0.32	0.35	0.23	0.36	0.24
To make good heat loss per 1000 sq. ft.	Fuel Consumption tons p.a.	7.7	8.3	1.7	1.8	1.9	1.3	2.0	1.3
	Cost of Heating Plant. Cost £'s	88	94	19	20	22	14	22.5	15
Saving in Plant and Fuel due to Celotex Insulation %				78	79	75	84	76	84

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resists moisture and heat

reflects light without glare

no joints

supplied in any colour combination

glass hard

easily cleaned with soap and water

economical



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If rationed food goes bad it cannot be replaced. In recognition of this fact the Government installed 75,000 'built-in' Electrolux Gas Refrigerators in temporary "Prefabs". Many Local Authorities followed this lead when planning their Permanent Housing Schemes.

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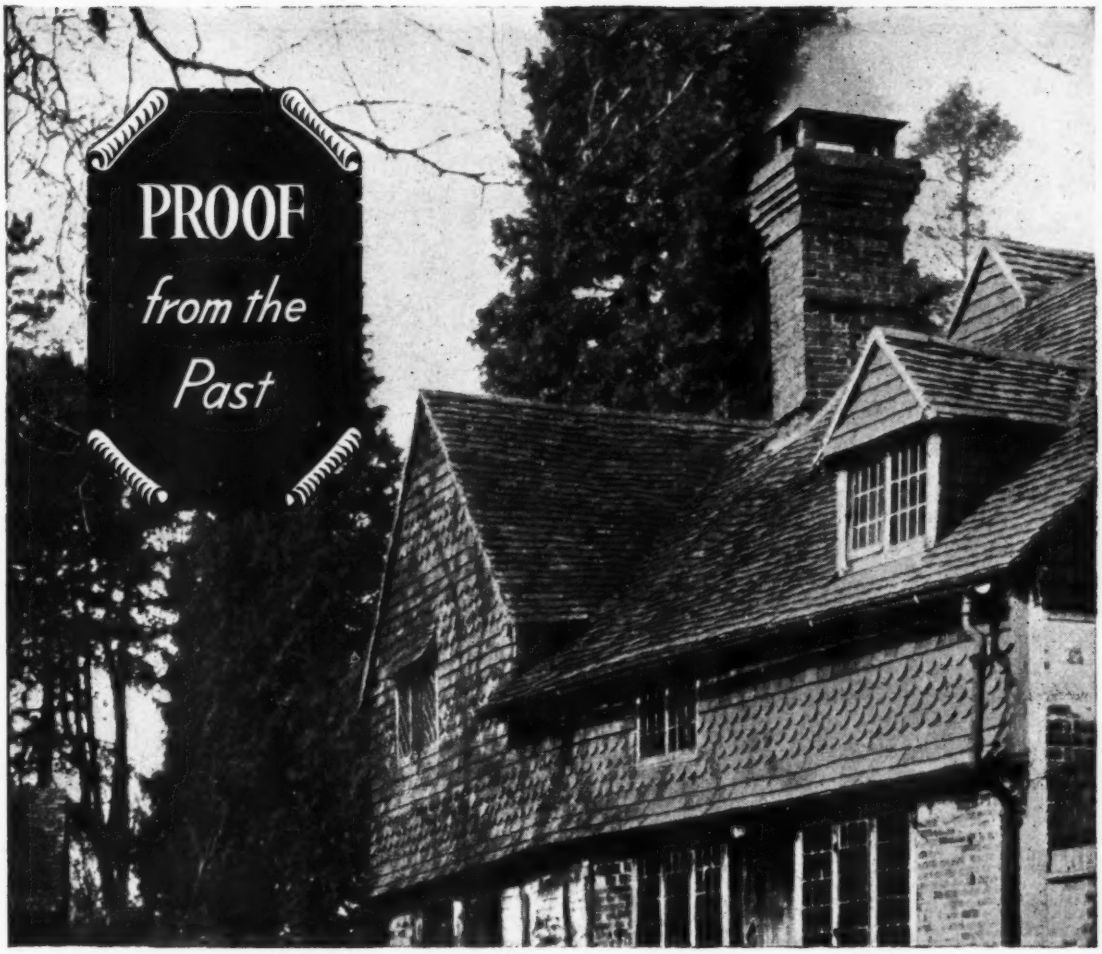
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Operated by Gas or Electricity

By Appointment Suction Cleaner and Refrigerator Manufacturers

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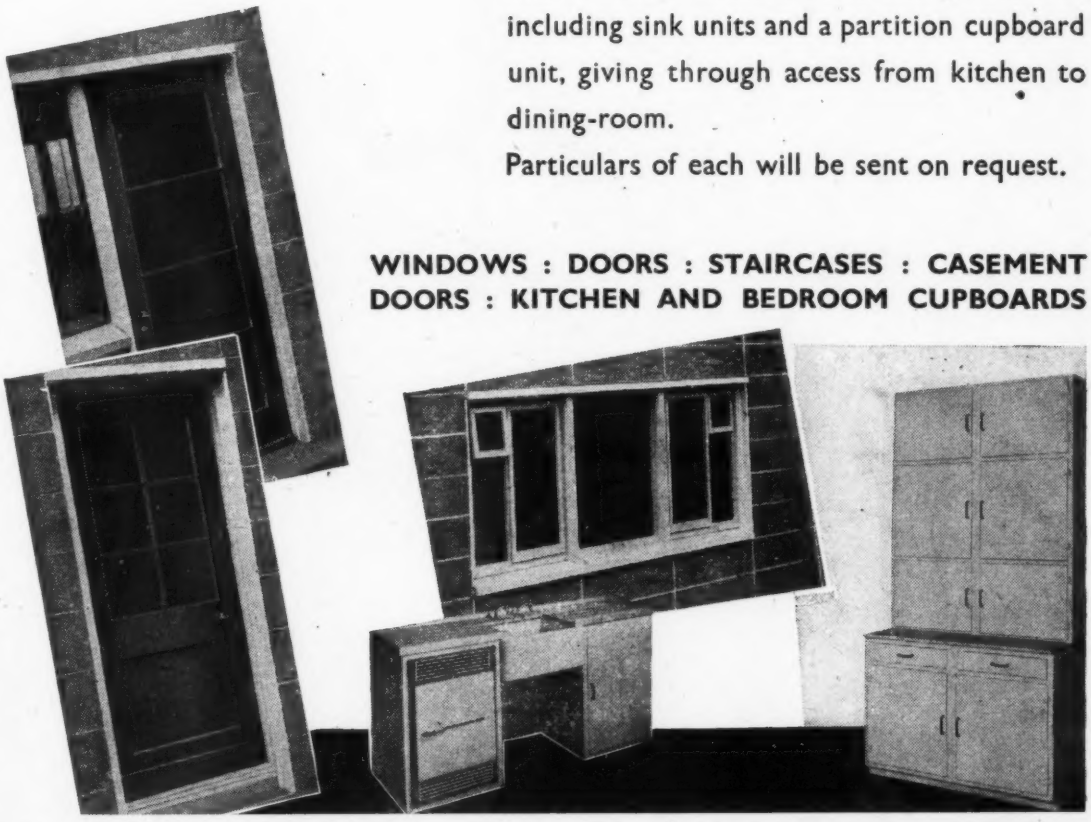


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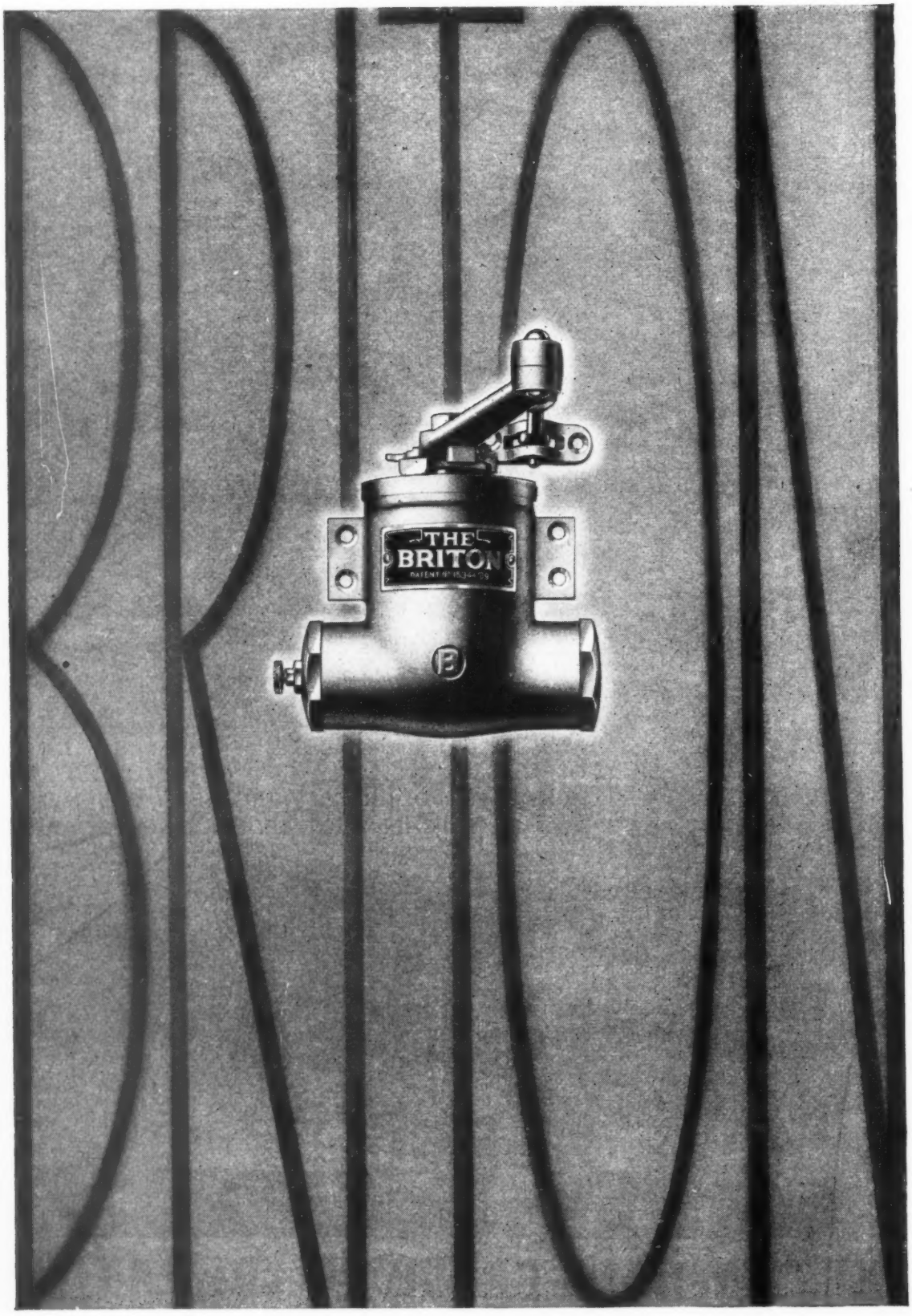
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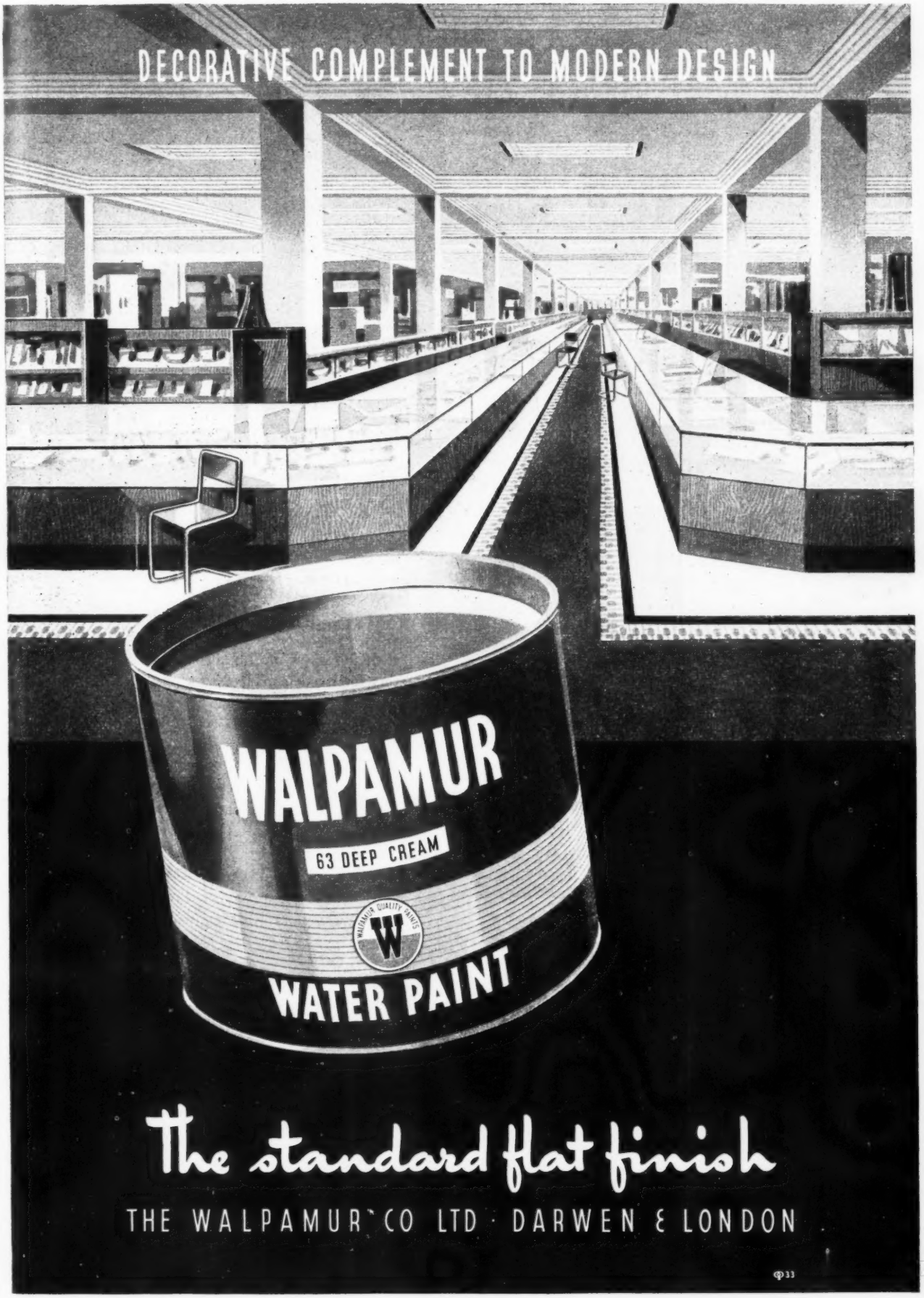


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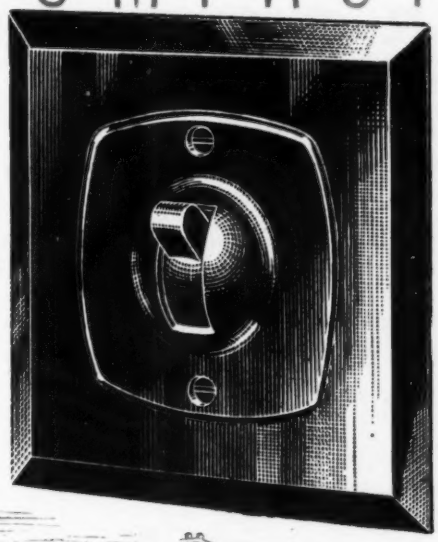
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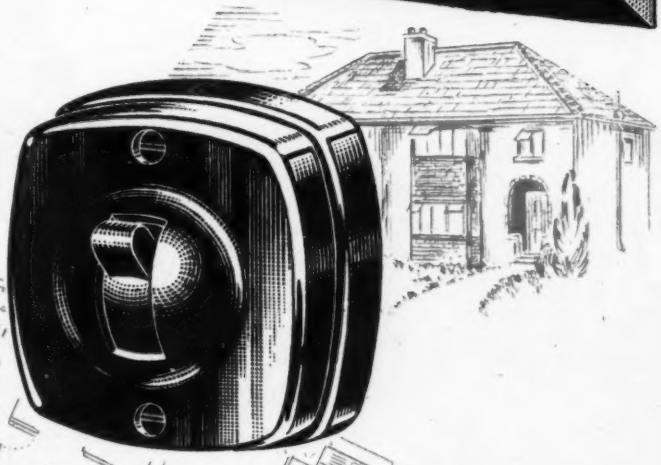
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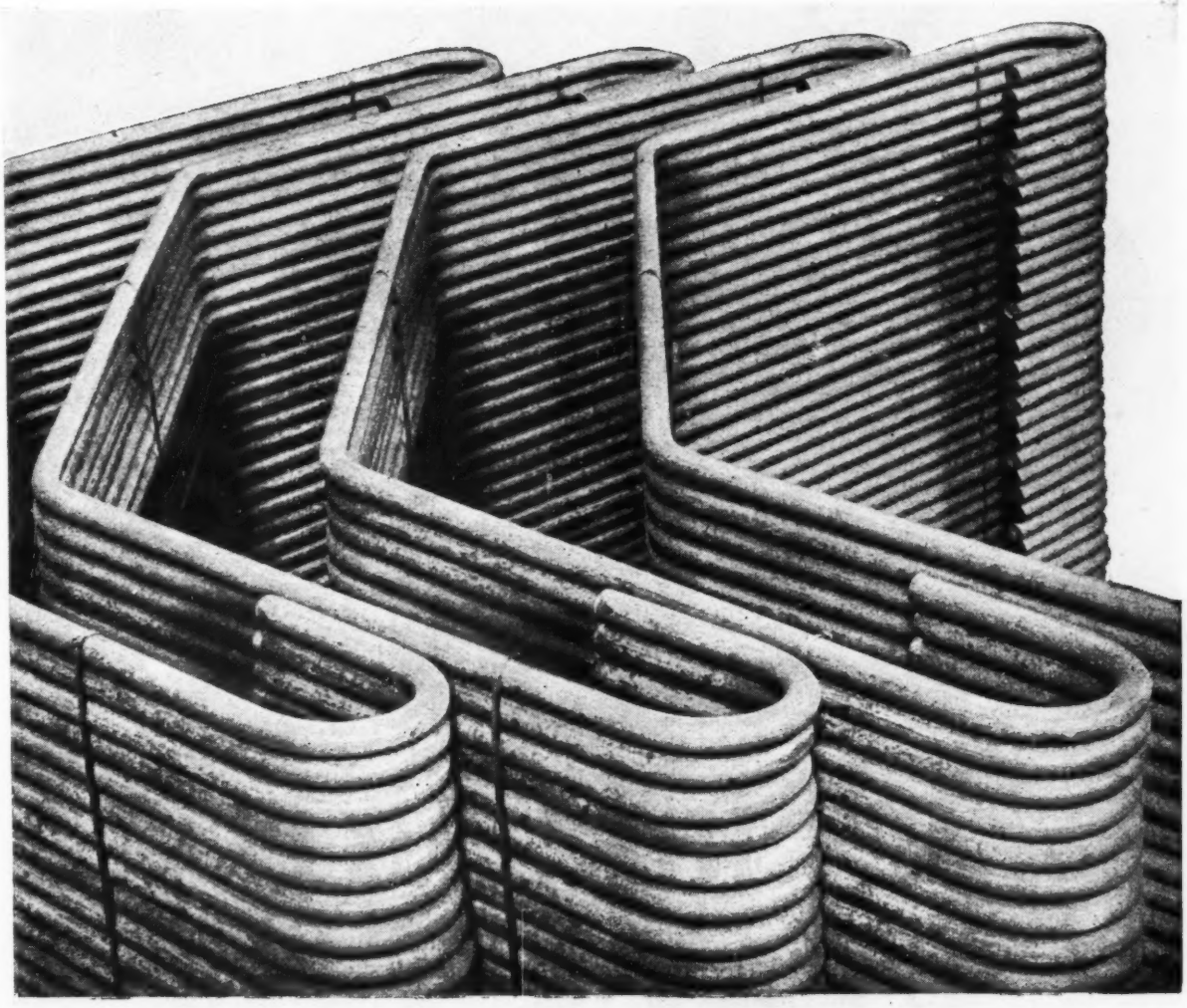
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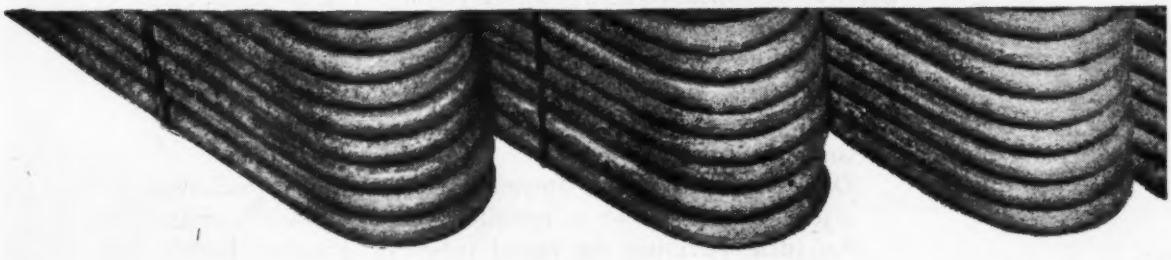
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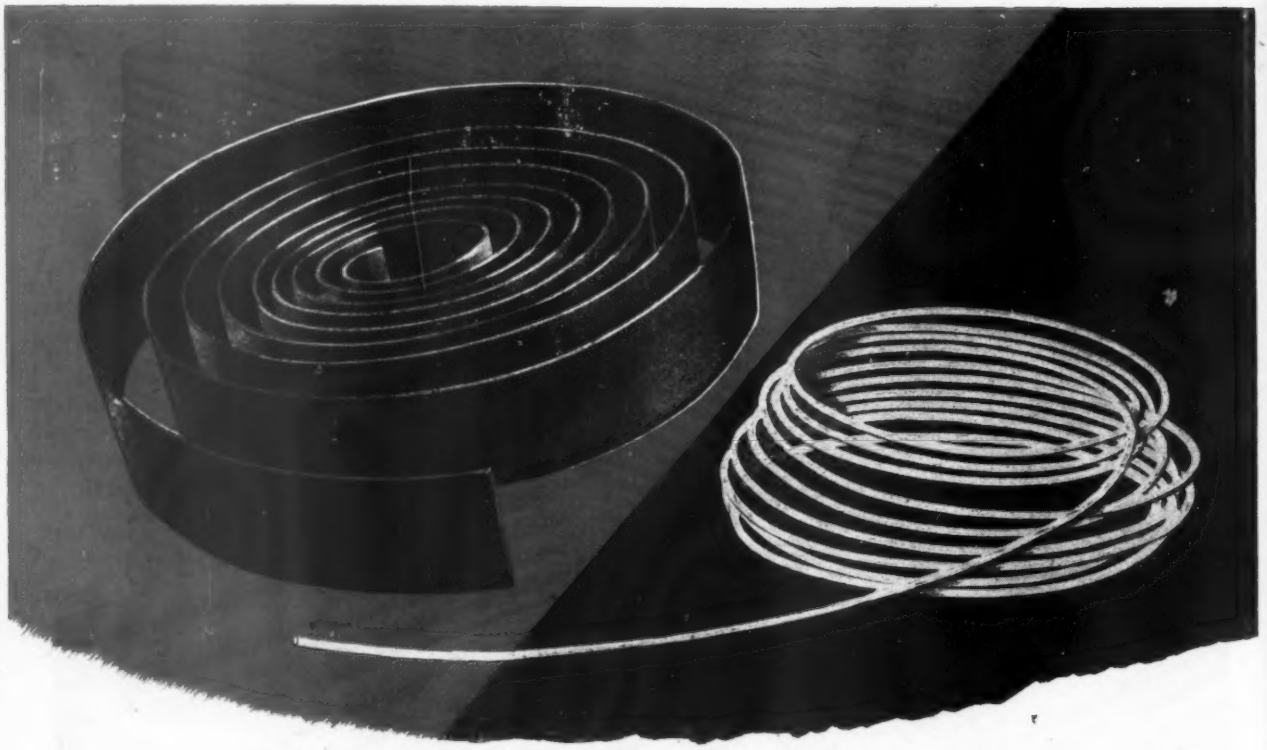
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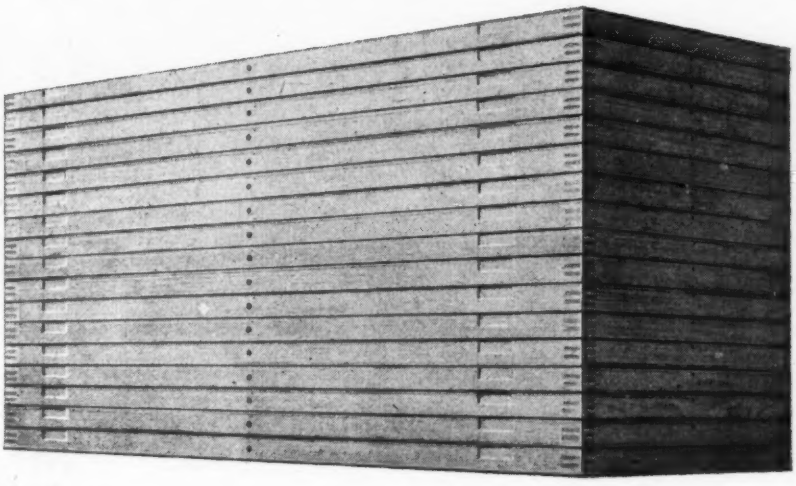
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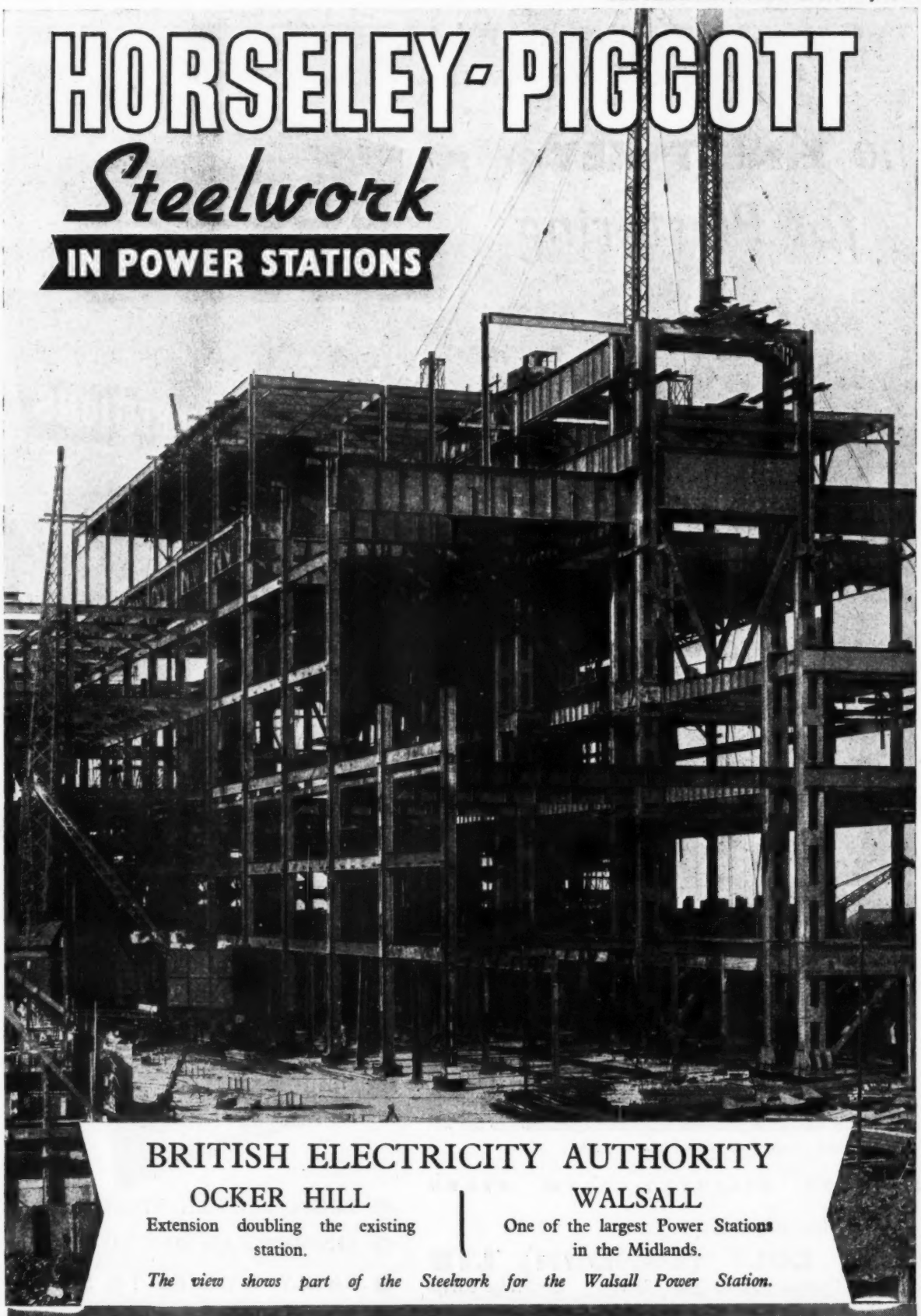
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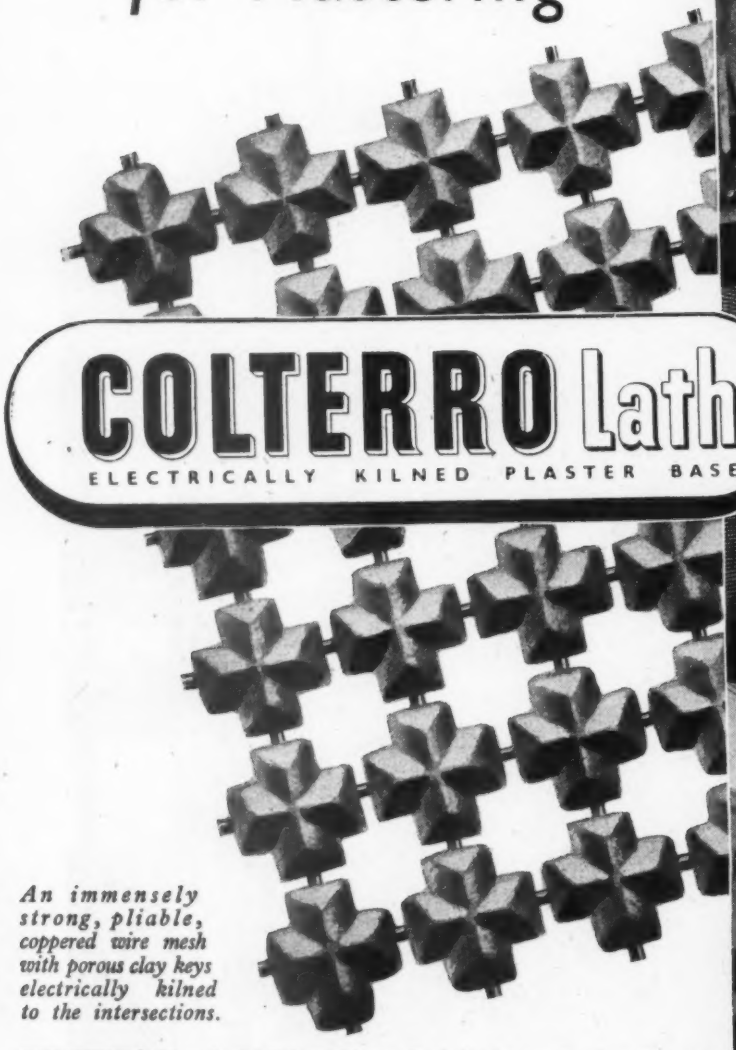
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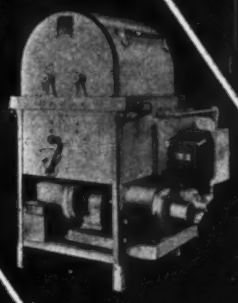
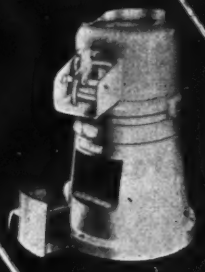
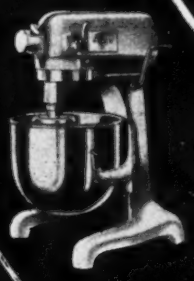
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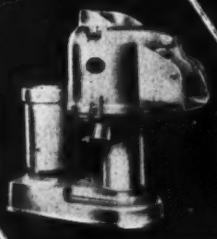
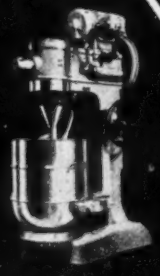
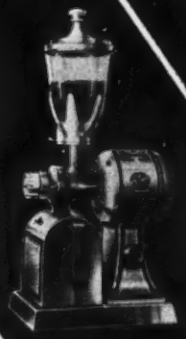
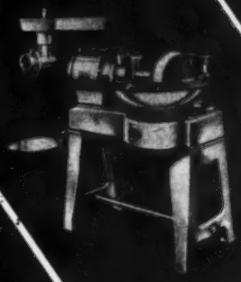
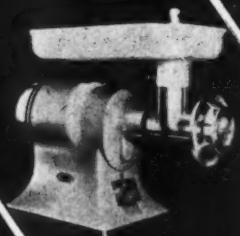
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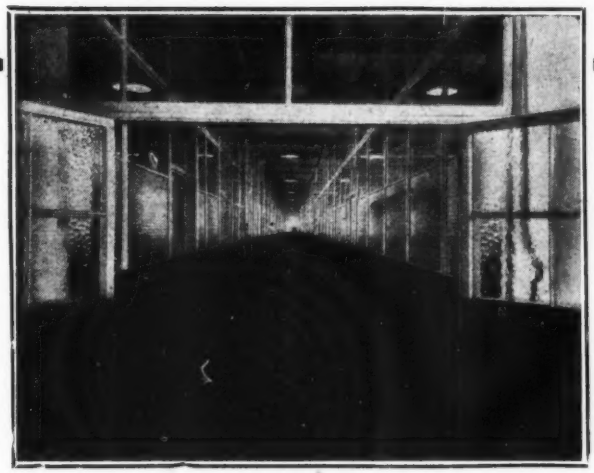
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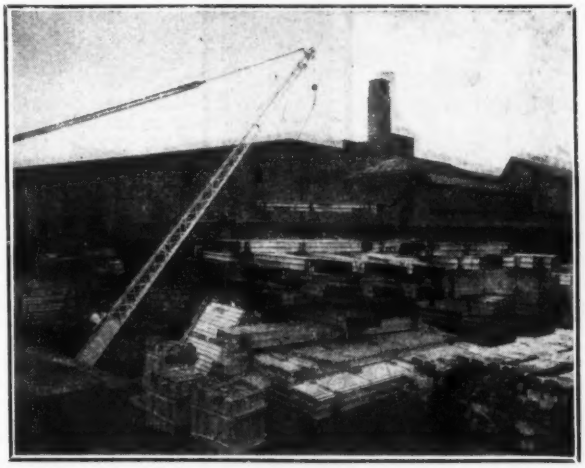
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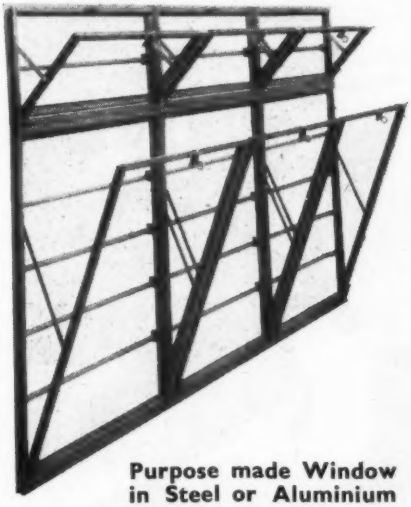
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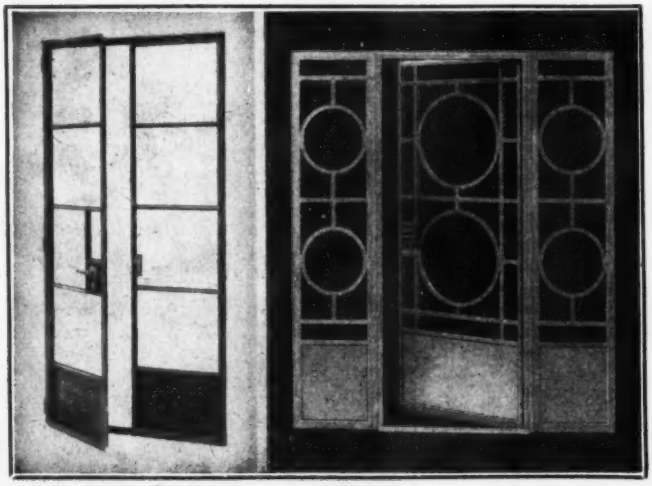


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DIARY FOR JULY AUGUST AND SEPTEMBER

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first.

BIRMINGHAM. *Exhibition of Work of Students of College and Schools of Arts and Crafts.* Museum and Art Gallery. (Sponsor, City of Birmingham Education Committee.) Daily, 10.30 a.m. to 6.30 p.m. Sunday, 2 p.m. to 5.30 p.m. UNTIL JULY 25

LONDON. *AA School Exhibition of Theatre Models.* Building Centre, 9, Conduit Street, W.1. Daily, 10 a.m. to 5 p.m. Saturdays, 10 a.m. to 1 p.m. UNTIL JULY 9

Croydon Manufacturing and Industrial Exhibition. Fairfield Site, East Croydon. (Sponsor, Croydon Chamber of Commerce.) JULY 7-16

Students Exhibition. Work of students of Regent Street Polytechnic School of Architecture, Surveying and Building. At Little Titchfield Street, W.1. Opening July 12, 2.30 p.m. Daily, 10 a.m. to 7 p.m. JULY 12-14

J. A. Scott, W. J. Durnford and A. Talbot Rogers. *Health Centres.* At 90, Buckingham Palace Road, S.W.1. (Sponsor, RSI.) 2.30 p.m. JULY 13

LMBA's Annual General Meeting and Luncheon. Derry and Toms Restaurant, Kensington High Street, W.8. 2 p.m. JULY 13

Exhibition of Work of School of Architecture, Polish University College. 21, Princes Gate, S.W.7. 10 a.m. to 6 p.m. JULY 14-28

Furniture Design Conference. At the RIBA, 66, Portland Place, W.1. (Sponsor, CID.) JULY 18-22

One-day Conference on Rent Control and the Condition of Houses. Central Hall, Westminster, S.W.1. 10.30 a.m. JULY 22

Exhibition of Industrial Finishes. At Earls Court. (Sponsor, CID.) AUG. 31-SEPT. 13

SOUTHAMPTON. *Design Week organized by the Council of Industrial Design.* Details to be announced locally. JULY 11-16

YORK. *Summer School of Architectural History and Measured Drawing.* (Sponsor, York Civic Trust.) AUGUST 13-27

COMPETITIONS

Industrial Art Bursaries Competition. The Royal Society of Arts. Competition divided into sections for the design of carpets; domestic solid - fuel - burning appliances; dress textiles; electric-light fittings; footwear; furnishing textiles; leather goods; wallpaper. A Bursary of £150 in value is offered for each section. (Two Bursaries in the dress textiles section). Open to full-time, part-time and evening-class students, between 17 and 30 on October 1, who intend to take up industrial design as a career and have studied for not less than one term since July 1, 1948, at an art, architectural, technical, or other college or school approved by the Society for the purpose of the competition. Entry in the domestic solid-fuel-burning appliance section is also open to any draughtsman, clerk, or similar person, within the same age limits, already engaged in the solid-fuel-burning appliances industry, provided that this application is sponsored by the Coal Utilization Joint Council.

Particulars and entry forms may be obtained from the Secretary, Royal Society of Arts, the principals of the schools and colleges concerned, and the Secretary, Coal Utilization Joint Council. The closing date for the receipt of entry forms is August 1.

NEWS

THURSDAY, July 7, 1949
No. 2839 VOL. 110

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Societies and Institutions .. 25

Though no feature in the JOURNAL *is without value for someone, there are often good reasons why certain news calls for special emphasis.*

★ *means spare a second for this, it will probably be worth it.*

★★ *means important news, for reasons which may or may not be obvious.*

Any feature marked with more than two stars is very big building news indeed.



Part of the permanent exhibition "New Hearths for Old" at the headquarters of the Women's Advisory Council on Solid Fuel, 18, South Molton Street, W.1.

R.I.B.A. CONFERENCE, NOTTINGHAM



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From AN ARCHITECT'S *Commonplace Book*

THE FUTURE OF NOTTINGHAM. [*From* Modern Nottingham in the Making, *by J. D. Chambers* (*Nottingham Journal, Ltd.*).]—The dry bones of the neighbourhood unit are thus clothed with flesh, but the breath of active community life is still wanting. Where do they look for it? Mainly in the schools and the clubs, and finally to the community association at the centre. The schools of the neighbourhood unit—or ward, as we may call it—are not to be merely the adjuncts to, but part of the community through the liaison of school managers, attendance officers, and staff with parents and children; all are to co-operate in making the school an institution for the all-round nurture of the young—a focus for the social as well as the cultural activities of the citizen-to-be. And side by side with, but separate from the schools, are the clubs—clubs for adults, for adolescents, for the old. . . . A ward forum is to quicken the neighbourhood consciousness through public debate and ward representation on the city council is to provide constant and real contacts between the parts and the centre, and in so doing, shake municipal politics into a new wakefulness. The new Nottingham, then, is to be a multi-cellular organism of planned neighbourhoods, or wards, each consciously designed for the quickening of its own group life, but each contributing to the wider community of the city itself. And the city, drawing new life from the resurrected cells of which it is composed, will, it is expected, give evidence of its rebirth as the most beautiful city of the Midlands.

A BUILDING DISPLAY has been organized by the LMBA for Croydon's Manufacturing and Industrial Exhibition.

The exhibition, which is being held on the Fairfield Site, East Croydon, until July 16, has been organized by a committee of local business men, acting in conjunction with the Croydon Chamber of Commerce. Mr. A. J. Chapman is organizing the LMBA exhibit, which will be fully representative of the building industry of the district.

Many of the important organizations connected with the building industry are lending exhibits, among them the BATC, which is providing as a back-cloth to the stand a large photograph showing apprentices at work, the TDA, the Copper Development Association and the Croydon School of Building. Messrs. Wates, Ltd., are providing models of some of their houses, while members of the London Association of Master Stonemasons are supplying specimens of the dressed stone to be used on the new House of Commons building. Practical demonstrations of carpentry and plumbing are to be given daily by apprentices from the Croydon Apprentice Master Scheme.

The plan of the LMBA stand, and of the layout of the exhibits, have been prepared by Mr. J. G. Stalley.

★★

The Royal Society of Arts has appointed NEW ROYAL DESIGNERS OF INDUSTRY.

They are as follows:—Edward Bawden (graphic design), Barnett Freedman (graphic design), Roger Furse (stage and film decor), and Eric Carlton Ottaway (road passenger vehicles).

Honorary RDI's appointed are Prof. Kaare Klint (Denmark) (furniture) and Mrs. Astrid Sampe Hultberg (Sweden) (textiles). This brings the total number of holders of the honour to 35, the limit being 40. There are now also eight Honorary RDI's.

AWARDS TO BUILDING APPRENTICES by the MOW have been announced.

The awards are as follows:—

Building Apprenticeship and Training Council Scholarships to Eamon Thomas Sarson, bricklayer apprentice, of 7, Grove Square, New Ferry, Cheshire, and Charles David Lewis, carpenter apprentice, of 6, Station Road, Dovercourt, Harwich, Essex. *South Wales Federation of Building Trades Employers' Award* to Norman Charles Bickford, carpenter and joiner, of 18, Vivian Road, Sketty, Swansea. *National Federation of Building Trades Operatives' Award* to Edward Carr, carpenter and joiner apprentice, of 69, Blackburn Street, Blackburn, Lancs.

Examinations were held last April in London, Manchester, Leeds, Glasgow, Nottingham, Cardiff and Plymouth, and were followed by interviews of selected candidates in London. The scholarships, valued at approximately £200 a year, are tenable at Manchester or Cardiff Universities for three years. Certificates of Award will be presented at the annual meeting of the Building and Training Apprenticeship Council in London.

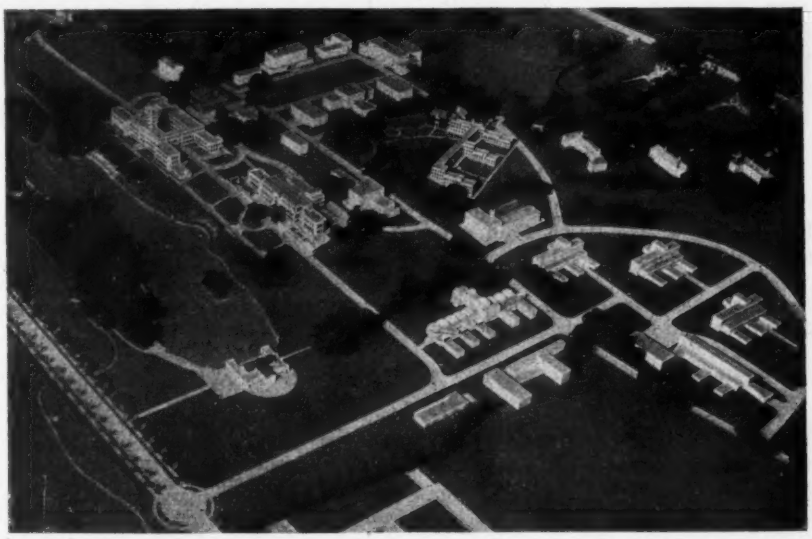
The first stage in the RE-DEVELOPMENT OF CLYDEBANK has been initiated.

The Secretary of State for Scotland, Mr. Arthur Woodburn, has stated that he is satisfied that the central blitzed area of Clydebank requires to be laid out afresh and redeveloped as a whole. This is the effect of an Order made by him, following a public inquiry held in Clydebank in December last.

The Secretary of State has made it clear to the Clydebank Town Council, who applied for the Order, that the Order does not in itself confer approval of their redevelopment proposals submitted at the inquiry and he has also informed the Council and all the objectors that the Order does not authorize the purchase at present of any particular properties.

Detailed proposals for the redevelopment of the area covered by the Order will now have to be submitted by the Clydebank Town Council to the Secretary of State, and interested parties will be given an opportunity of considering these proposals and of making representations on them.

When the redevelopment plan for the area designated by the Secretary of State in the Order has been approved, and a phased programme of redevelopment submitted, the Town Council will be able to participate in the Exchequer subsidies for blitz redevelopment made available under the new Planning Act of 1947.



Model of the development plan, designed by Sir Percy Thomas, for the University of Nottingham, and recently approved by the University Council. The scheme has also been approved by the Corporation of Nottingham under the Town Planning Act, 1947. Part of the scheme is described on page 22.



Lincoln from the Air

Lincoln town and cathedral, visited by some of the members of last week's RIBA Conference at Nottingham, is a typical cathedral city. This aerial view illustrates clearly one point raised by Mr. T. Cecil Howitt in his paper on Housing which he read at the Conference. In the foreground are the houses of the old town, too closely spaced in places to comply with modern byelaws, yet with plenty of open lawns running between the buildings. In the distance lies the monotony of the new town, strangled by the laws made to prevent the congestion of the old. This week the JOURNAL presents in pictorial form the events of the Conference and recent work by Nottingham architects.

A COMPETITION FOR A WOMEN'S HALL OF RESIDENCE for Nottingham's University, assessor Sir Percy Thomas, was announced by the President of the RIBA in his inaugural address to members of the Nottingham Conference.

After expressing his thanks to the Lord Mayor and Corporation of Nottingham for their hospitality, the president and members of the Nottingham, Derby and Lincoln Architectural Society for the preparations they had made for the Conference. Mr. Michael Waterhouse went on to say:—

The year through which we have passed has had its difficulties and problems, but I really think progress has been made, and that the building industry, of which our profession forms an integral part, can look forward to better times in the days to come, always assuming, of course, that we are not overwhelmed by another economic crisis.

Many of us still feel that those responsible, in the client sense, for housing may not have appreciated what a difficult subject it is, and how necessary it is to utilize the best brains of our profession in providing solutions to the problems which it presents. May I put in a plea for architectural competitions. The Royal Institute has always advocated the holding of architectural competitions for buildings of local and national importance. We feel that the competition system, which is peculiar to the architectural profession, gives a great opportunity for the young members of the profession, and many of the finest buildings in this country have been designed by young architects who have secured recognition through this system.

The NFBTE and the LMBA will be represented jointly at the Building Exhibition at Olympia in November.

As in 1947, when the last Building Exhibition took place, the LMBA, as the London Region of the National Federation, is arranging the display, which will consist of a club-room in the gallery. It will again have the Digest restaurant as a club, with membership open to all National Federation members.

★

Lancashire is to suggest its own SITES FOR NEW TOWNS.

The county planning committee at Preston has accepted suggestions made in a letter from the MOTCP that it should give urgent attention to the possible siting of new towns and report on the problem.

The Ministry suggests that the county council might, at this stage, assume that one, and possibly two, new towns to accommodate, in all, 100,000 people may be required and that one should be located south of Preston and the other (if there is a case for two) north of Preston.

The chairman of the committee, Mr. A. E. Higham, welcomed the Ministry's gesture in giving Lancashire the opportunity of initiating the scheme. The job, he said, involved many problems and difficulties. They had a considerable problem in south Lancashire, and preliminary estimates suggested that as many as 500,000 persons might have to be accommodated. It was expected that the report, which the committee had asked its planning officer (Mr. G. W. Sutton Brown) to prepare, would take two or three months and would be only a provisional one at that stage.

★

A LOCAL INQUIRY is to be held at LETCOMBE BASSETT.

The Letcombe Bassett dispute was left 4 months ago at the stage when the parish had "complained" to the Minister of Health under the Public Health Act, 1936, that the Wantage RDC had failed to discharge their functions in providing sewerage in the parish and had asked for a public local inquiry into the matter. The Ministry has now informed the parties that the Minister of Health has decided to direct one of his inspectors to hold such an inquiry. The date and place will be decided later.

NEWS IN BRIEF

Mr. John Patterson, deputy chief architect to the Department of Health for Scotland, has been appointed deputy chief architect of Liverpool.

The RIBA is offering a Maintenance Scholarship of £60 for award in July. It is a fourth- and fifth-year scholarship to enable a student who has passed the intermediate stage to complete an approved course at a school of architecture recognised for exemption from the RIBA Final Examination.

Mr. Norman Kennedy, last year's President of the London Regional Joint Apprenticeship Committee, recently presented prizes awarded by the Building Apprenticeship and Training Council to 28 building trades apprentices, in the Council Chamber of the LMBA.

A Scottish branch of the Engineers' Guild is to be established, with headquarters in Glasgow.

REDESIGNING THE HOME

A STUDY of the two papers on housing read at the RIBA Conference by J. H. Forshaw and T. Cecil Howitt (see pages 25-29 of this issue) will show that the architectural profession has little reason to feel satisfied with its achievements in this field. A large number of homes have been built since the war, but few of them set new standards in planning, design or layout. It is extremely doubtful if any of them will attract the sightseers of years to come. The English country house, the English village, the Georgian square and the garden city, each have a unique place in the landscape that generations of architects and builders have created. Can it be said that the average post war housing estate is contributing any more to this chain of development? The only basic alteration is in the increase of floor area and the provision of cupboards and kitchen equipment; all items which are liable to be cut if the cost of building stays as high as it is at present.

Yet the problem that lies before the architect is as large as ever. Millions of houses in rural and urban slums are well below the standards demanded today. These millions will have to be rebuilt and much more drastic and far reaching changes will have to be made in housing standards and structural technique if the quantity of houses needed is to be achieved in a reasonable time.

Of post-war developments, the temporary prefabricated house is, perhaps, the most grisly failure for which architects must accept some of the blame. Even the permanent prefab has the inherent disadvantage of being a standard inflexible design which, on the grounds of uniformity alone, could not be tolerated in large numbers. Yet it is certainly in the sphere of factory production, and of the prefabrication of small components which can be quickly erected in a great variety of ways, that the solution to the problem lies. Other factors can, however, contribute greatly: improved performances in materials, simpler and quicker methods of fixing, and not least, the inculcation of a team spirit between architect, builder and operatives.

There is, however, another field for development which is purely the architect's, and that is in the actual planning of the house. The design of the three-bedroom house of today is based largely on the pre-war middle-class villa. The improvements recommended by official bodies are concerned only with detail, and not with the initial conception. Here is a primary fault. The pre-war villa is not of high enough standard to form the basic frame-work for contemporary living, and no amount of playing with patent heating apparatus or insulating materials will make it so.

In his paper Mr. Howitt pointed out that half the area of a house, that is to say the bedroom floor, is only occupied for one third of the day. Not only is the space unused, but owing to the arbitrary floor areas required under building byelaws, it is badly arranged. The addition of bedroom

furniture, which is only necessary because of the inadequacy of the fittings provided, makes doubly evident the mis-use of the floor space.

Privacy, warmth, facilities for cooking and washing, and flexibility in accommodation to cater for the growing family ; these are the basic requirements of a home. These requirements should be conceived in volumes, related to the human being and not expressed in floor areas and a minimum height, in itself a most crippling limitation to architectural expression. Further, these requirements should embody only the standards and techniques of contemporary life without the conventional and snobbish trappings of an earlier era.

Most houses are run by one woman. She should have to work no longer or harder than any other worker. So the house plan, the materials used, and the equipment provided should be regularly reassessed to ensure that the house is a machine which can be easily managed by the housewife.

It would be extremely interesting if the basic requirements of a home and the means of building it formed the subject of research as thorough as that undertaken by one or two enlightened local authorities on the planning and design of schools.



The Architects' Journal

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1

Phone: Whitehall 0611

NOTES & TOPICS

BUILDER IN PAINT

Too rarely these days, do we find painters who have a real love for, and appreciation of, architecture. Hail, then, to Mr. William Townsend and his current exhibition at Roland, Browse and Delbanco's galleries in Cork Street. Brother of Architect Robert Townsend, William was trained at the Slade and, becoming impressed by Paul Nash, his work was at first formalised. Later, being in sympathy with the group known as the Euston Road school, he went a more objective way. The present exhibition, displaying his post-war work, shows that controlled, objective approach in the impressionist tradition which must be the most natural expression for a modern landscape painter.

*

I like the unaffected directness, restraint and sincerity of his style and his strong feeling for the picturesque. Mr. Townsend may object to being pinned down by a phrase—I don't know. But I would call him a fervent Sharawagg. Look, for instance, at his picture called "City Churches," with its subtle colours and strong architectonic composition of picturesque ruins, or at his "Lambeth," in which he has discovered incidental, formal beauty in the urban squalor. His interior of Canterbury Cathedral—he is an acknowledged expert on Canterbury—also shows this power to make a picture out of architectural raw material, whether monumental, ruined or merely sordid. I was glad, incidentally, to find his "South Bank" and to know that a Sharawagg has recorded in paint a scene we shall never see again—the site of the 1951 Exhibition before the demolishers get to work.

NATHANIEL LLOYD

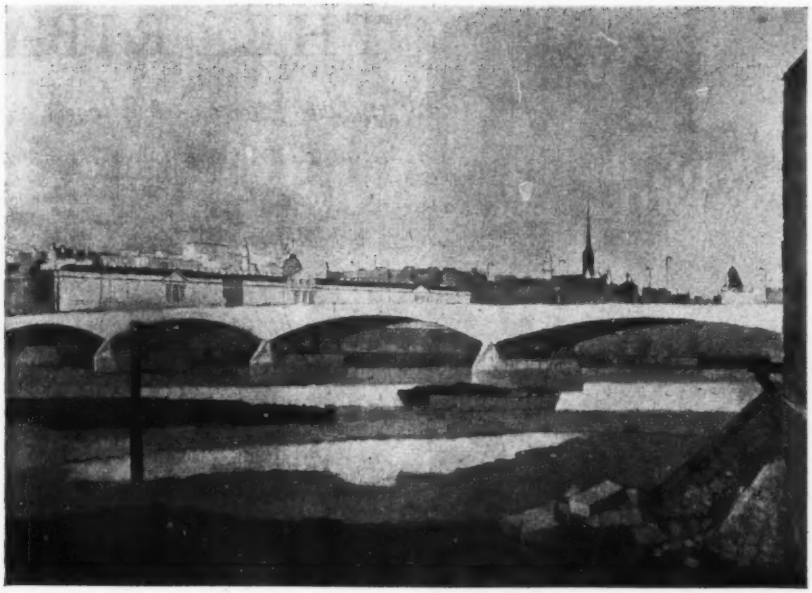
If there is any architectural book to which the term classic can be justly applied it is Nathaniel Lloyd's *History of the English House*. It is completely authoritative, fully documented and never likely to be superseded. It has, like so many classics, been out of print since well before the war, and the copies in the architectural libraries have been getting more and more tattered. This month it is republished at a price only half a guinea more than the pre-war price of three guineas. The Architectural Press are to be congratulated on putting through what must have been a considerable undertaking in view of present day difficulties of paper supply, binding and book production generally.

TIGER NOT BURNING VERY BRIGHT

It has long been agreed in the film and publishing world — and when there's agreement in *that* world we can take it as unalterable — that as a successful hero of fiction nobody approaches the doctor. The famous K.C., the Fashionable playwright, the painter with seeds of genius—sometimes even the M.P. — put in regular appearances for their respective professions, but the doctor with his background of mystery and magic, his variety of contacts, his constant encounters with drama both public and private, and above all the fact that he is nearly always naturally to be found in a bedroom, leads the field unchallenged. Fair enough, but shouldn't the architect be higher on the list than among the Rosencrantzs and Guildenstens of fiction, which is where one usually finds him? After all he meets almost as many people, he can be given a studio, and (if essential) a seed of genius, and he has every excuse for going into bedrooms.

*

Mr. Reginald Turnor clearly thinks so, for he has boldly made an architect the hero of his recent novel "The Tiger and the Rose" (Methuen, 9s. 6d.). "Hero" is perhaps not the word for Sir Edward Ampney (the "p," we are told, is silent as in . . . well never mind), the pupil of Waterhouse, contemporary and rival of Lutyens, for in this self-told record of a tragic private life and a professionally successful career he emerges an unsympathetic



Waterloo Bridge as seen by the landscape painter William Townsend. One of the pictures at his current exhibition at the Roland, Browse and Delbanco galleries on which Astragal comments this week. On the right is part of the old Red Lion brewery, now demolished to make way for the 1951 *Exhibition.*

and indeed spineless figure. His life as he tells it, usually with the help of a number of colloquialisms which are irritatingly out of key with his character and period, is one of personal conflict between love and passion, a conflict which wrecks both his marriages and makes a neurotic of his son. A dismal and at times a repellant tale, told against an architectural background which is never more than perfunctorily indicated. Not a book, I fear, to cause alarm in Harley Street.

MORE ABOUT TAVERN CARS

Having said, among dozens of others, my small piece about BR's tavern cars, I'd hoped that they'd just fade away, but Mr. Callaghan, Parliamentary Secretary to the MOT, has been naive enough to defend them on the grounds that the public flock to them, as if they would not go to any buffet car anywhere, particularly if it were new. I'd go again myself for that matter, if only to make sure they're worse than I have already said they are, but I'd hate my attendance to be interpreted as meaning approval. On the same grounds, Mr. Callaghan would perhaps assume that the morning and evening chaos around the suburban cattle trucks at Liverpool Street signifies pleasure. But when Mr. Callaghan pooh-poohs the many complaints and suggests that the Railway Executive will soon be giving the CID a few hints, it only reinforces one's doubts about the whole government set up in relation to design. If the CID hasn't a big enough stick to smack down ineptitudes of this kind, it is high time somebody gave it one.

NOTTINGHAM CONFERENCE

The combination of Nottingham's fifth centenary celebrations and the RIBA Conference must have tried the organizers severely. By all accounts the Conference was very successful, though the constant change of scene (no two events occurred in the same place) must have tired many. It is not fair to criticize too severely what is, after all, only the profession's annual outing, but two facts plainly emerged. Firstly, insufficient time was allowed for discussion on the two papers on housing read by J. H. Forshaw and T. Cecil Howitt. Secondly, too much of what was said was the reiteration of planning points which should have been assimilated years ago. Astragal's deepest sympathies, however, went out to the poor fellow who confessed amid general laughter to having to fit his housing schemes into an engineer's road-layout. Despite the post-war promises of the planners, architects have still a long way to go in many a local authority's hierarchy.

ASTRAGAL

LETTERS

Ian Colquhoun.

Graham Elliott, A.R.I.B.A.

LCC Housing

SIR,—I have recently returned from a 7-week visit to Holland, and although I was too late to go to the LCC exhibition, I have seen your issue of May 26, and would like to draw some comparisons; not on a basis of costs, interior planning, or amenities provided, as I did not make a study of these buildings, but on some elevational points sufficiently small, I hope, not to be prejudiced by the question of economics.

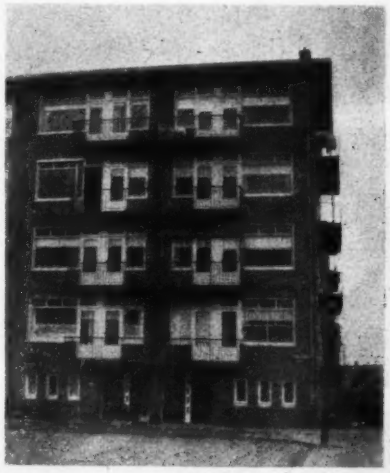
First, the use of flat roofs with generous overhangs seems much more satisfactory.

Second, the use of open balconies in preference to solid ones contributes an increased lightness in effect.

Third, and I think most important, the treatment of the windows. In 4- or 5-storey blocks, the Dutch frankly abandon the domestic window suitable to the housing; the large well-proportioned types provided are undivided except as absolutely necessary, and are often deliberately used as picture windows without opening lights. Owing to the shortage of steel, they are set in simple rectangular wooden frames with thin glazing bars which give a much more human effect than the thin, mean metal sections. Could not some use be made of standardized wood casements without the unnecessary subdivisions of the LCC windows?

I enclose a photograph of a block of flats, about 1940 I think, which is similar in general design to blocks now being built in Amsterdam and The Hague.

IAN COLQUHOUN



A Dutch block of flats (see letter above).

SIR,—The need for economy is obvious, yet the LCC has disregarded the very real savings which could have been effected by the imaginative use of modern construction and materials. Surely no one should even consider building five-storey flats with load-bearing brick walls today.

GRAHAM ELLIOTT



The Lord Mayor making his speech at the inaugural meeting.

THE RIBA

On the following four pages the recent RIBA Conference is presented in picture form. The Conference was held from Wednesday, June 29, until Saturday, July 2, and was attended by over five hundred members. In addition to the customary lectures (see page 25), there was an exhibition of work by local architects, a garden party, several half and whole-day tours of Nottingham and the neighbourhood, a reception and dance in Nottingham Castle and a formal dinner at the University.



The Informal Reception.—The members were the guests of the Nottingham, Derby and Lincoln Architectural Society. The reception was held at the Victoria Station Hotel, and guests were received by Mr. and Mrs. Michael Waterhouse and Major and Mrs. C. F. W. Haseldine. Left, some of the Nottingham members at the reception: top, Mr. J. W. M. Dudding, Mrs. Norman Summers, Mr. Roy Maurer and Mr. Norman Summers. Centre, Mr. D. M. Goodacre, and Mr. and Mrs. D. G. Thornley







Inaugural Meeting.—This was held at Nottingham Boys High School. An address was given by the Lord Mayor, Alderman William Sharp, who welcomed the delegates to the city, and Mr. Michael Waterhouse spoke in reply (see page 4). Mr. J. H. Forshaw then read his paper on "Housing, a Social Service." Above, Mr. Forshaw. Below, left, Mr. A. E. Eberlin and Mr. F. A. Broadhead, of Nottingham. Right, a section of the audience.



CONFERENCE AT NOTTINGHAM











Garden Party.—On Thursday afternoon, members were taken by motor coach to Wollaton Hall. Above, reading from left to right: Lord Trent, a vice-President of the Conference, and Mr. Michael Waterhouse. Sir Percy Thomas and Mrs. R. E. M. Coombes. Mr. S. M. Richmond, of West Hartlepool, Mr. H. Nuttall, of Huddersfield, and Mr. J. T. Castle, of Bradford; outside the orangery, Mr. J. W. M. Dudding, of Nottingham, Mr. J. Lewis Womersley, of Northampton, and Mr. E. W. Roberts, County Architect of Nottinghamshire. Right, Dr. Ronald Bradbury, City Architect of Liverpool, and Mr. and Mrs. J. H. Forshaw. Below, from left to right: Mr. and Mrs. D. H. Davies, of Birmingham, Mr. and Mrs. Anthony Clark, of Wrexham, Mr. and Mrs. M. G. Gilling, of Liverpool, Mr. and Mrs. A. B. Gardner, of Aberdeen, and their son Alan.









THE RIBA CONFERENCE AT NOTTINGHAM



Civic Reception and Dance.—Guests were received in Nottingham Castle by the Lord Mayor and Lady Mayoress and by Mr. and Mrs. Michael Waterhouse. Left, Mr. and Mrs. T. Cecil Howitt and their daughter Mrs. A. L. Roberts. Below, left, Mr. John McNab and Mr. W. E. Finlayson, of Glasgow, offering a peach to a friend. Below, the dance in progress in a marquee on the lawn.







The RIBA Conference photograph taken on June 30, at the garden party held in the grounds of Wollaton Hall, Nottingham





Calverton Colliery.—This was one of several half-day tours on Friday afternoon. The colliery's buildings were designed by G. A. Jellicoe, with the exception of the pithead baths and the canteen, which were by J. W. M. Dudding. Extreme left, Mr. and Mrs. G. W. Fairbairn. Left, three members about to descend the pit.





Conference Dinner.—This was held at the University of Nottingham on Friday night. Speeches were made by Mr. Michael Waterhouse, President, RIBA; the Lord Mayor of Nottingham (Alderman William Sharp); the Bishop of Southwell; Major C. F. W. Haseldine, President, Nottingham, Derby and Lincoln Architectural Society; T. Nelson Cartwright, Vice-President of the Nottingham, Derby and Lincoln Architectural Society and B. L. Hallward, Vice-Chancellor, University of Nottingham.
Right, Mr. and Mrs. C. H. Aslin, of Hertfordshire. Extreme right, Mr. Michael Waterhouse making his speech.



The Hall, now the property of the City, houses a natural history museum.

RECENT WORK IN NOTTINGHAM

The following pages give a selection of the most important work now in hand or recently completed by Nottingham architects. Completed work is confined to buildings finished since the war, so a large proportion of the work inevitably takes the form of projects still on the architects' drawing boards. All these are intended to be realized, however, as soon as circumstances allow.



The Bilborough Estate, which is being laid out by the Housing Department, Nottingham Corporation, under the Housing Architect, C. A. Pilkington. The estate of 419 acres will provide 2,700 dwellings and 13 shops. At present 1,403 dwellings have been completed.

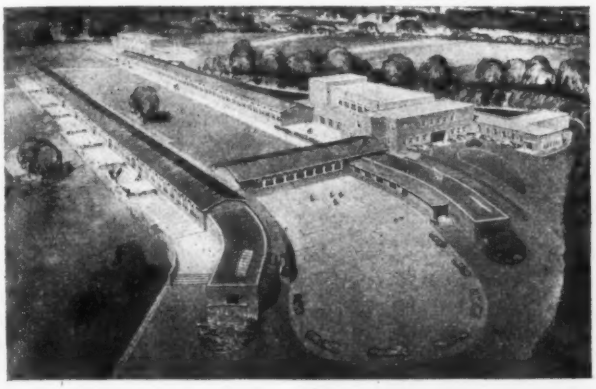


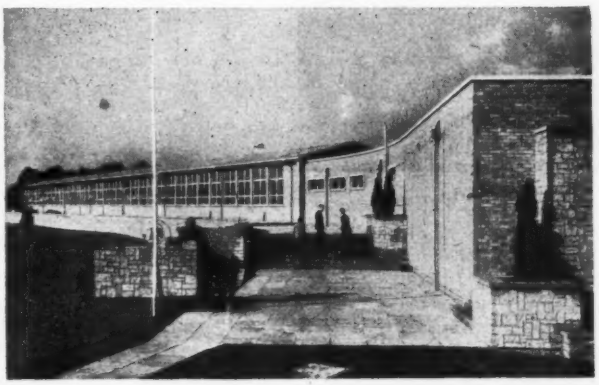
The Henry Whipple School, Bestwood, under construction, designed by the Nottingham City Engineer, R. M. Finch. The School is the completion of part of a contract commenced early in 1939.

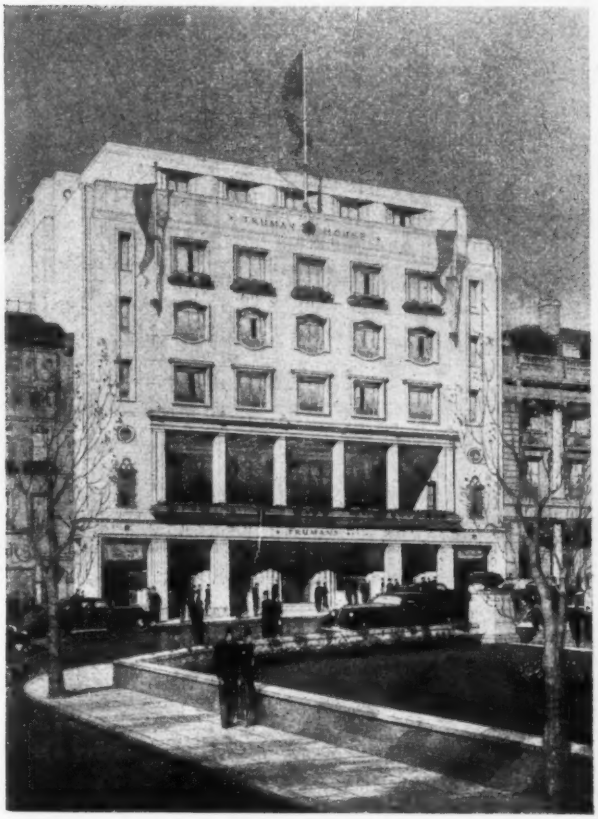


The Beechdale Estate, which is being developed by the Nottingham Corporation Housing Department, under the Housing Architect, C. A. Pilkington, includes 565 temporary bungalows.

Below, top, model of new Secondary Modern School at Redhill Arnold, designed for the Nottinghamshire Education Committee by E. W. Roberts, County Architect. Centre, a completed classroom block of the new secondary school.

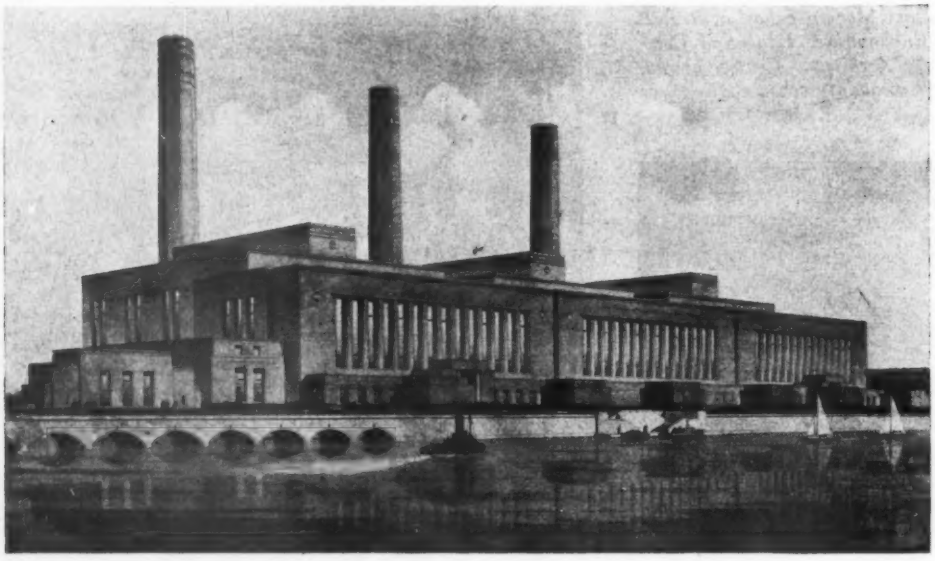




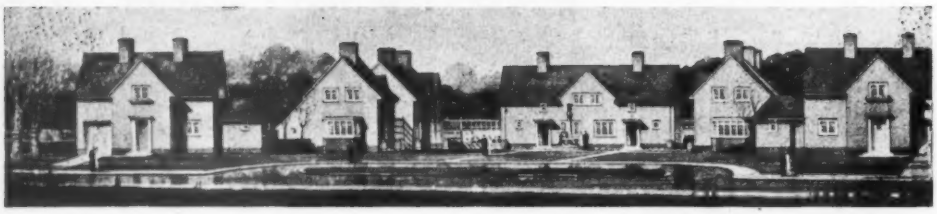


Above, Truman House, Beast Market Hill, Nottingham. Project by T. Cecil Howitt and Partners. Below, model of "Hurst Farm" housing site, designed by T. N. Cartwright. This scheme, situated to the east of Matlock, provides for 525 houses. Site preparation work is now in progress.



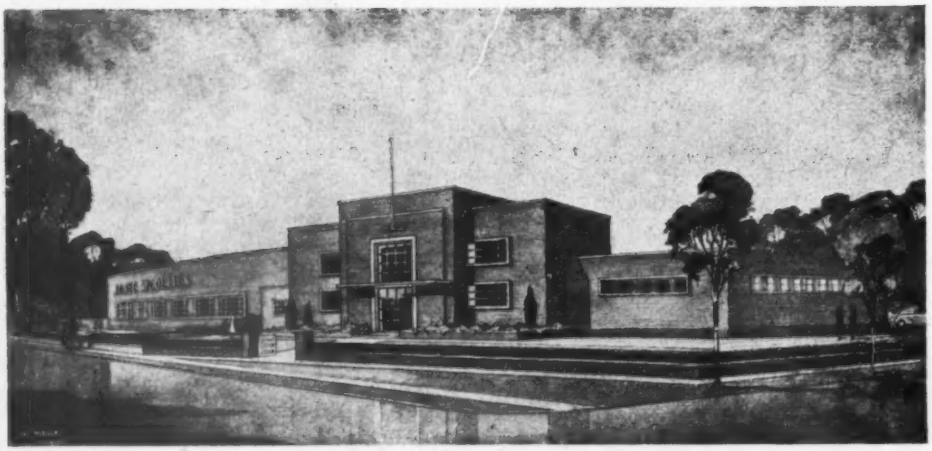


Perspective view of Staythorpe Power Station, at present under construction. Designed by T. Cecil Howitt and Partners.



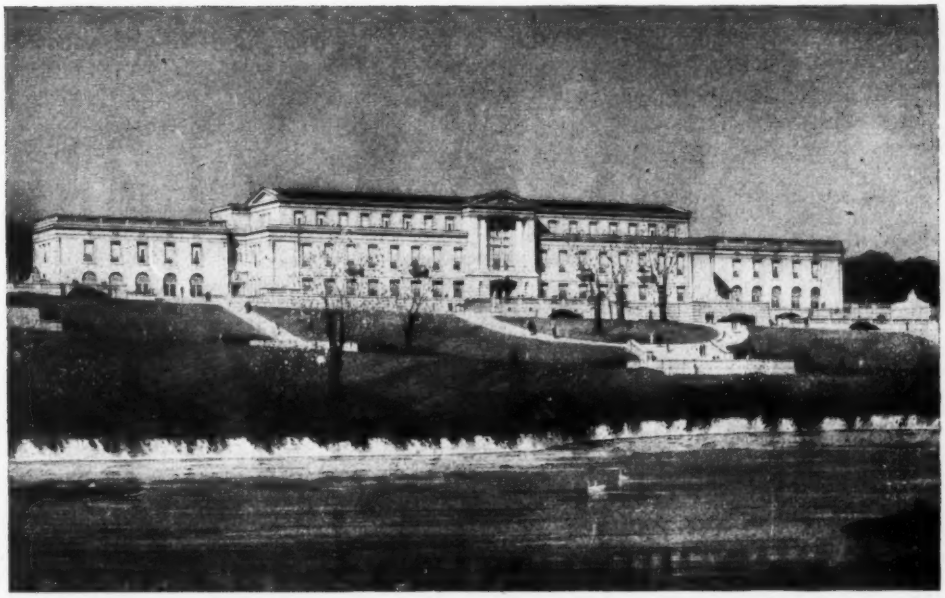


Two proposed groups of houses for the personnel at Staythorpe Power Station. Designed by T. Cecil Howitt and Partners.



Perspective of a new factory for Messrs. Jonee Woollies, Ltd., at present under construction at South Kirkby, Yorkshire. Designed by Reginald W. Cooper.

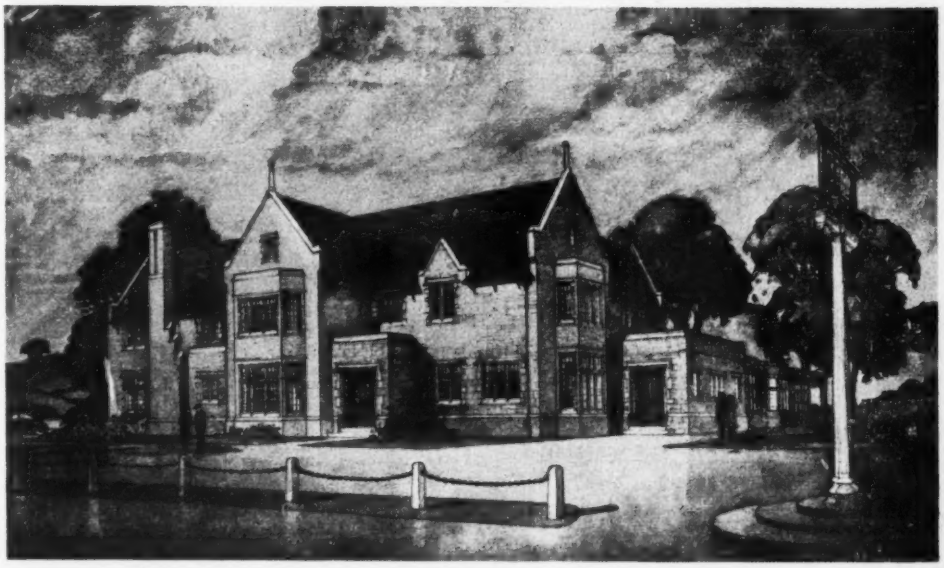
RECENT WORK : *DESIGNED BY*



Proposed union building at the University of Nottingham, designed by T. Cecil Howitt and Partners. This building is designed to fit into the University development plan, recently prepared by Sir Percy Thomas.

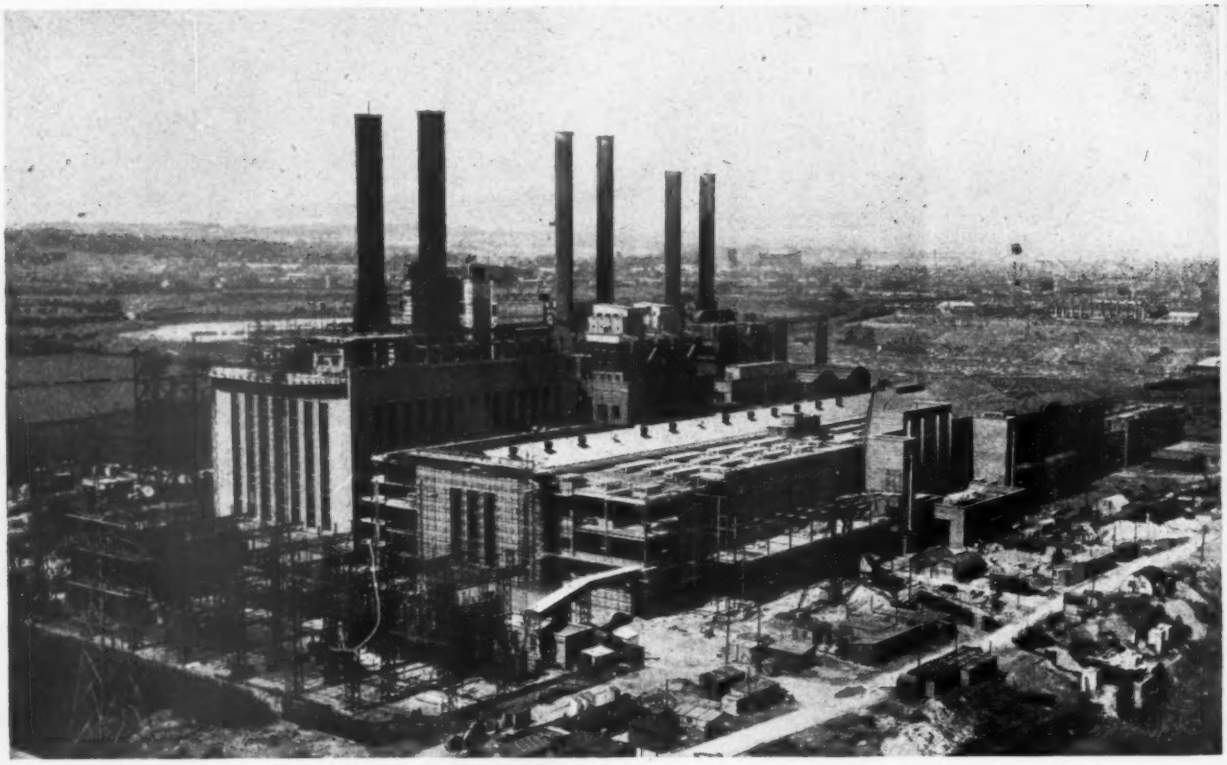


Men's hostel for the University of Nottingham. This building, designed by T. Cecil Howitt and Partners, is in the course of erection.



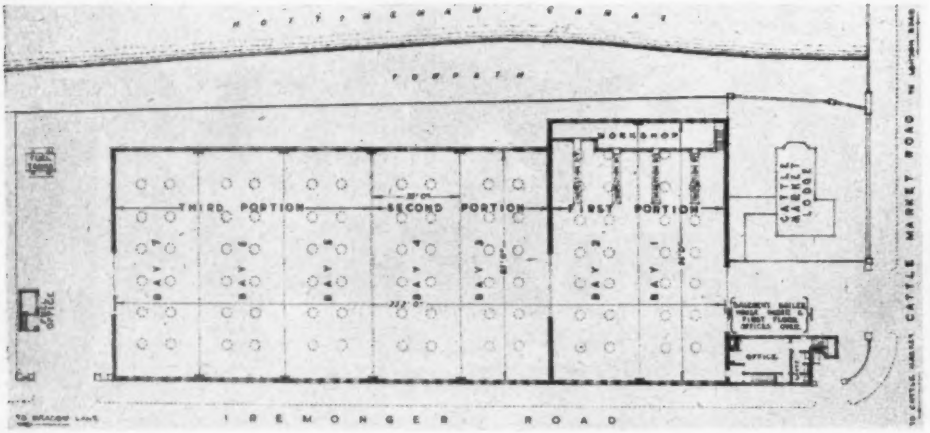
Perspective view of the proposed Stuart Arms Hotel at Trowell, Nottinghamshire. Designed by Reginald W. Cooper.

NOTTINGHAM ARCHITECTS





Above: North Wilford Power Station. The first post-war extension, designed by the City Engineer, was opened in 1948. Another extension to his design was commenced in August, 1946, and is nearing completion. [Photograph by courtesy of Thomas Bow, Ltd.]



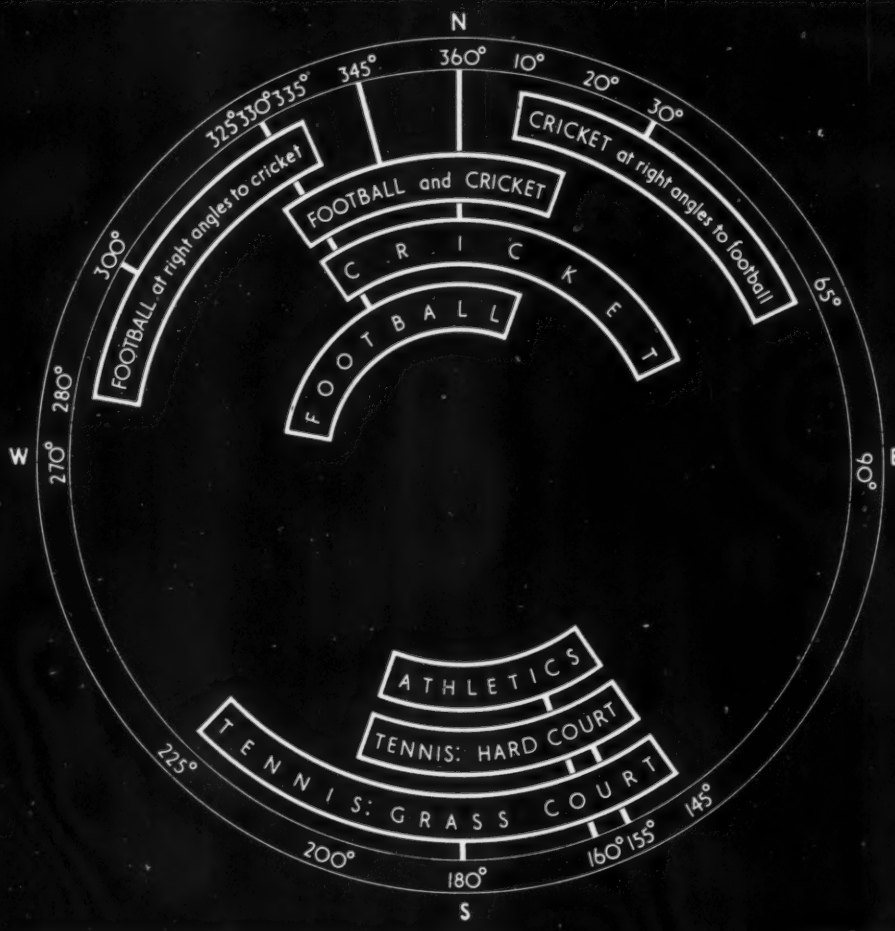
Above, left: New Garage for Messrs. Robin Hood Transport (now the Road Transport Executive), Nottingham, designed by A. W. Betts & Son. Left: Plan of the complete scheme for the above garage. Four of the seven bays of the reinforced concrete barrel-vault roof are now complete.

RECENT WORK : *DESIGNED BY*

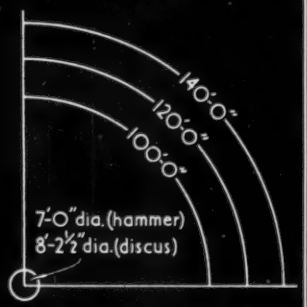


DESIGN DATA | RECREATION

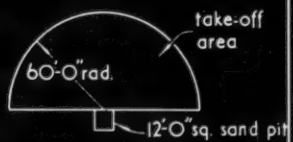
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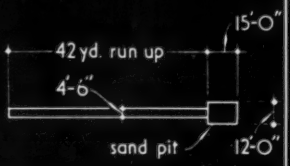
ORIENTATION OF SPORTS FIELDS AND COURTS.



THROWING THE HAMMER AND THROWING THE DISCUS.



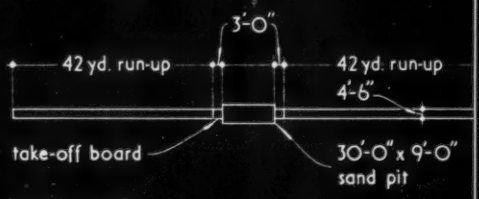
HIGH JUMP.



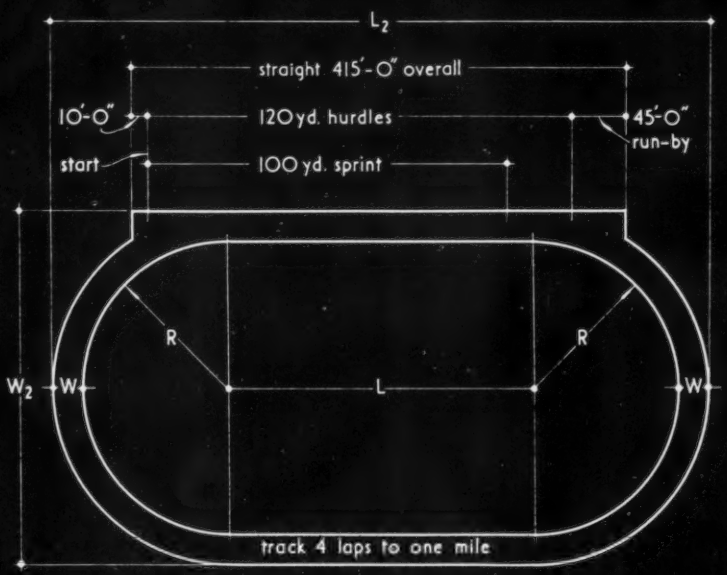
POLE VAULT.



THROWING THE JAVELIN.



LONG JUMP.



RUNNING TRACK.

length of parallels L	radius of curves R	width of track W	overall length L_2	overall width W_2
80 yd.	132'-7"	24'-27'	559'-2"	319'-2"
90 yd.	123'-1⅝"	24'-27'	570'-4"	300'-4'
100 yd.	113'-6"	24'-27'	581'-0"	281'-0"
110 yd.	103'-11½"	24'-27'	591'-11"	261'-11"
120 yd.	94'-5"	24'-27'	602'-0"	242'-10'

ORIENTATION OF SPORTS FIELDS AND COURTS AND SPACE REQUIREMENTS FOR VARIOUS ATHLETIC ACTIVITIES (GAMES 2).

4.L2 ORIENTATION OF SPORTS FIELDS AND COURTS AND SPACE REQUIREMENTS FOR VARIOUS ATHLETIC ACTIVITIES

This Sheet is the second of a group setting out the standard sizes of sports fields, space for athletic activities, swimming pools and sports equipment. It deals with the recommended orientation for sports fields and courts, and gives the accepted sizes for running tracks and particulars of space requirements for other athletic activities. The information given on this Sheet is extracted from the publication *The Layout of Playing Fields* by permission of The National Playing Fields Association.

Orientation of Sports Fields and Courts

The diagram indicates the limiting geographical bearings to ensure reasonably good orientation for the various games through the major part of the season's play. The thick radiating lines show the best orientation in each case. The recommendations have been very widely adopted and are calculated for the latitude of Greenwich and are applicable to the greater part of Southern England. More Northern districts might, with advantage, keep the limits a few degrees further North in each case.

The advantage of good orientation should always be carefully weighed against the effects of surface gradients, where for economic or other reasons those of greater severity than is normally advisable have to be accepted. Quite apart from the effect on the run of the ball, the physical strain of play increases in proportion to the gradient. It is therefore recommended that where the surface gradient exceeds 1 in 40, the main direction of play should be transverse to the direction of the inclination, irrespective of the demands of good orientation.

Running Track

The most popular dimensions of running tracks of four laps to 1 mile are shown. The layout giving the length of the parallels " L " as 90 yards is the one most favoured by athletic authorities and allows space in the arena for a senior football pitch 110 yards by 70 yards, with sufficient space on the circled ends and side margins to accommodate various jumps and bases for other field events.

It should be noted that the radius to the inner edge of the track, as shown, is determined so that when the track is measured on a line 1 ft. beyond the inner edge, the required distance will be obtained. Curves of less than 30 yards radius are not recommended.

Most track events up to 440 yards are now run in lanes. The minimum lane width is 4 ft., maximum 4 ft. 6 in., so that the width of track for six runners will be from 24 ft. to 27 ft. In some cases the width of the lap is reduced to 4 lanes (16 ft. to 18 ft.), leaving the straight six lanes in width.

The Amateur Athletic Association supports the opinion that six lanes (*i.e.*, a track width of 27 ft.) should be provided.

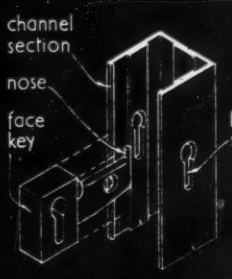
The space requirements for other athletic activities are given in the diagrams on the right-hand side of the Sheet.

Putting the Shot: The layout for this activity is not illustrated. It requires a base circle of 7 ft. diameter and minimum allowance for a put in one direction of 50 ft.

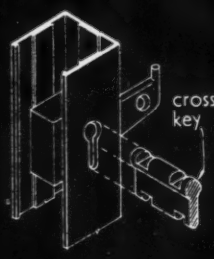
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COMPLETE STRUCTURES | PREFABRICATED LIGHT ALLOY

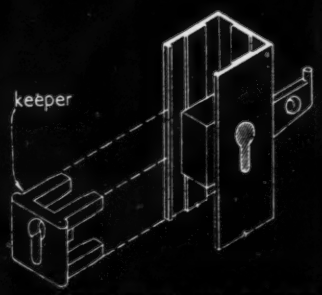
The Architects' Journal Library of Information Sheets 186. Editor: Cotterell Butler, A.R.I.B.A.



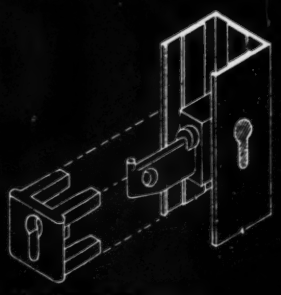
1. face key positioned for insertion in channel.



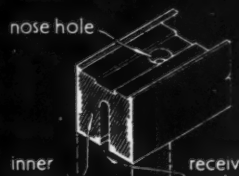
2. face key fully inserted: cross key ready for insertion.



3. face key and cross key in position: keeper ready for insertion.

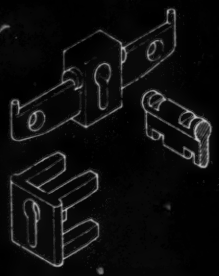


4. alternative position for face key.

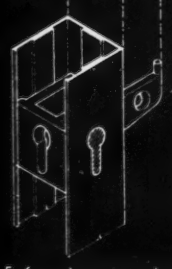


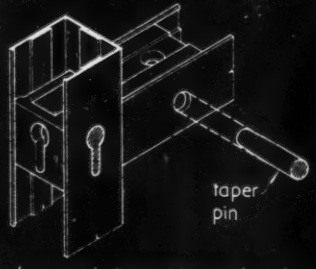






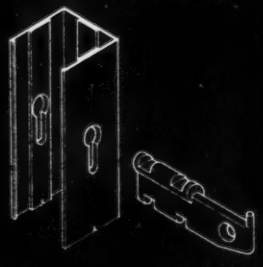
double face key, keeper and cross key (comprising assembly A2)



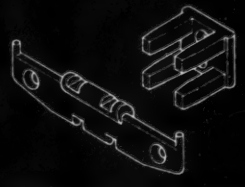


5. face key, cross key and keeper (comprising assembly A) positioned to receive channel.

6. second channel located on key: taper pin ready for driving in to lock channels together.

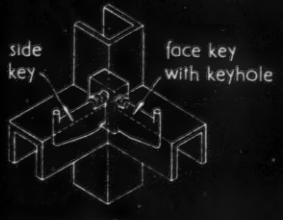


side key (together with keeper comprising assembly B)

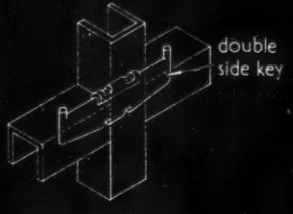


double side key and keeper (comprising assembly B2)

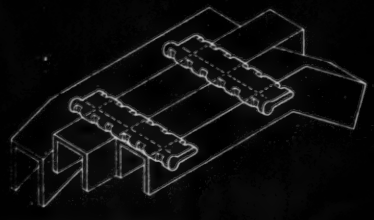
ASSEMBLY SEQUENCE FOR FORMING JOINT ON ANY FACE OF CHANNEL AND ON OPPOSITE FACES.



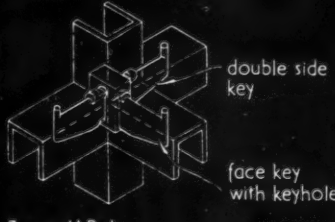
adjacent (AB)



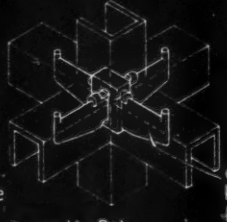
opposite (B2)



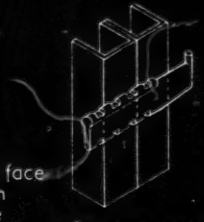
3-channel cross keys



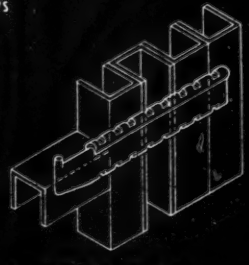
3-way (AB2)



4-way (A2 B2)



2-channel cross key (with or without side keys)



4-channel cross key (with or without side keys)

TYPICAL JOINTS TO ACCOMMODATE TWO OR MORE CHANNEL SECTIONS.

·KEYLOCK· SYSTEM OF CONSTRUCTION: BASIC PRINCIPLES 2. Manufacturer: Packaged Buildings.

25.A2 · KEYLOCK · SYSTEM OF CONSTRUCTION : BASIC PRINCIPLES 2

This Sheet is the second of a group describing the Keylock system of connecting standard structural elements to form a flexible range of building components. It describes the method and illustrates the parts used for making up the rigid joints between structural elements. The first twelve diagrams on the face of this Sheet show the location sequence of the components forming typical joints and how a second channel can engage a key on any face. The remaining drawings illustrate variations to accommodate two or more sections connecting to the same point and also the means whereby they may be connected in the same plane. The system has been so designed that the keys and other locking pieces cannot be assembled incorrectly, a fact of considerable assistance where unskilled labour is to be used. Sheet 25.A1 describes the general basis of the system and illustrates typical structural assemblies.

Fixing Components

The components listed below are used in conjunction with the extruded channel illustrated on Sheet 25.A1, and provide the necessary anchorage to the inner extrusion block which is included as a standard in the ends of all channels cut to length.

Keys: These are all of pressure die-cast aluminium alloy and are of a simple type designed to make connection between two channels as illustrated in the group of drawings at the top of the face of this Sheet, or are multiple keys with and without perforations designed for more complex arrangements as illustrated in the drawings on the lower half of this Sheet. Keys capable of making connection between two to five channels are available as standard. A variety of different types of key is shown in the selection of composite fixings illustrated.

Keepers: These are four-legged die-cast aluminium components designed to be pressed into the slots in the cross key and by means of an interference bead on the edge of the extruded channel may be sprung rigidly into place under hand pressure. The component assembly is held rigidly together as long as the keeper is in position. Removal of the keeper may be effected by means of a simple ejector tool.

Taper Pins: These are aluminium pins fabricated from $\frac{1}{4}$ in. rod, 1 in. long with a taper designed to draw the channels into tight contact. They are driven into the holes through the channel inner extrusion and key. The centre of the hole in the key is staggered in relation to the channel so that the taper pin when driven home constitutes a correct driving fit, securely fixing the components together.

General Considerations

This system being designed to use the minimum of material the question of strength at the weakest point of any framed structure, namely, the joint, has been carefully considered. It will be observed that the inner extrusion piece at the end of the channel forms in effect a solid block, as also do the interlocking keys.

The keys are pressure die-cast to a high degree of accuracy and the allowable tolerances on these have been carefully reconciled with the dimensions and tolerances of the channel. In consequence, there is the same certainty of fit of any key in another and in any perforation in the channel as there is with a cartridge into a rifle. Tolerances are in the main about plus or minus 0·005 in., and the possibility of a minimum tolerance on the keys coinciding with a maximum tolerance on the channel and thus causing a slack fit of the keeper has been met by an interference bead on the channel requiring the keeper to be snapped in.

It will be noted from the diagrams that it is possible to join a channel at right angles to any face at any set of perforations, or two channels to any two faces, as well as three or four channels to corresponding faces, and that any four faces of the second channel may receive the key. While this Sheet only shows the jointing of one channel in depth, the same principle is adopted when channels are joined to form a lattice beam of any multiple of 3 in. in depth, and here again these may be combined to give from two to four channels in width, as is illustrated on Sheet 25.A1.

This Series of Sheets covers the principles of the system, details of the locking system adopted, typical examples of structural and cladding details for domestic and similiar single- and double-storey buildings, large-span single-storey buildings, such as warehouses and assembly halls and loading tests on typical structural assemblies.

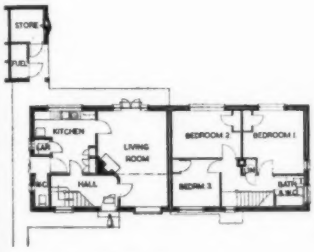
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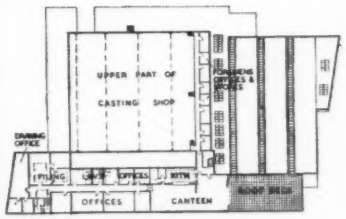


PLAN TYPE A

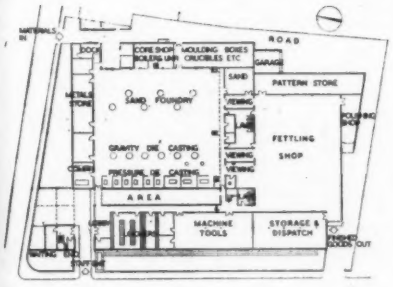


PLAN TYPE B
[Scale: $\frac{1}{8}$"=1'0"]

Above, two plan types used for houses erected by the Nottingham Corporation. Right: top, traditional houses, designed by the City Housing Architect, which are being erected on the Bilborough Estate.; centre, The Three Counties Hotel, Birmingham. A project designed by T. Cecil Howitt and Partners.



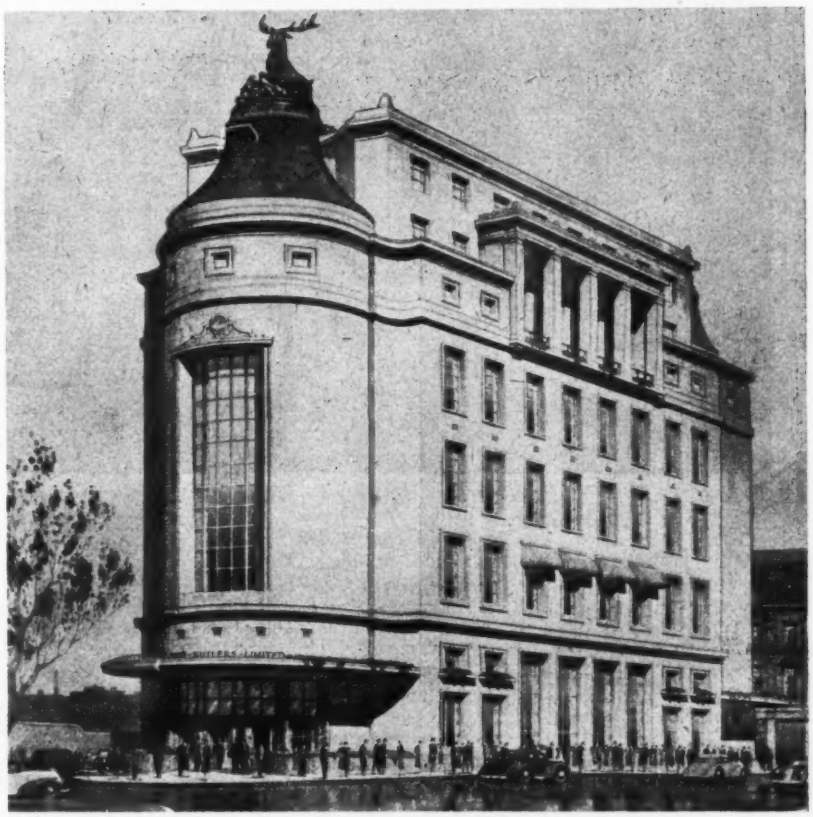
FIRST FLOOR PLAN

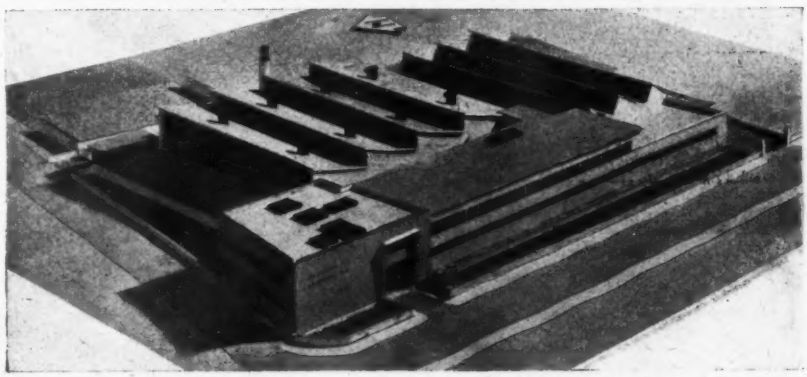


GROUND FLOOR PLAN

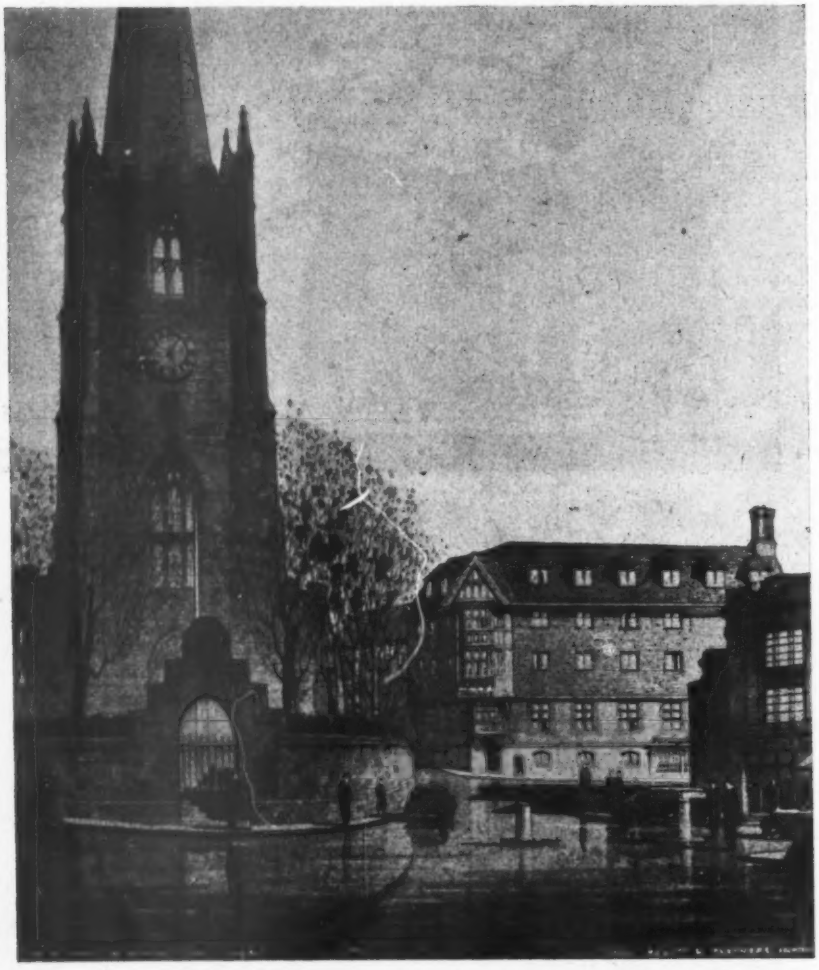
Above, plans of the proposed factory for the Universal Engineering Co., Nottingham, designed by C. F. W. Haseldine. Right, model of factory.







N O T T I N G H A M A R C H I T E C T S



Proposed building for W. Harley, Ltd., Pepper Street, Nottingham. Designed by T. Cecil Howitt and Partners.

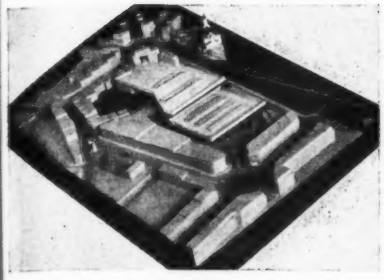


Proposed new licensed house for Messrs. Mitchell and Butlers, Ltd. Designed by A. E. Eberlin and L. Darbyshire.

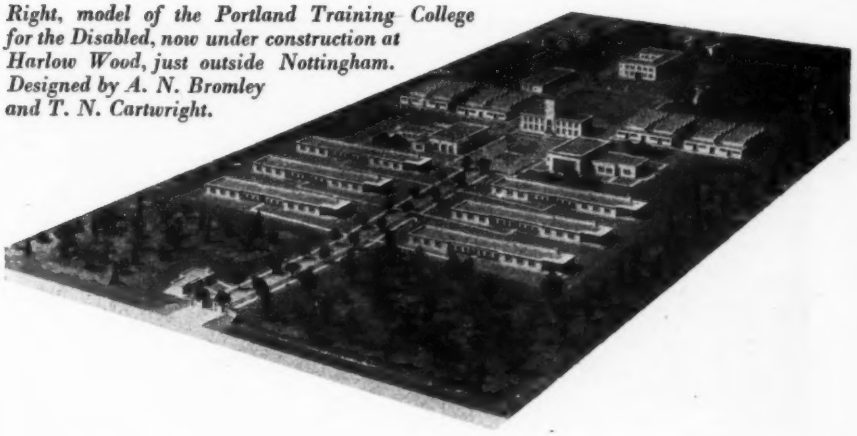


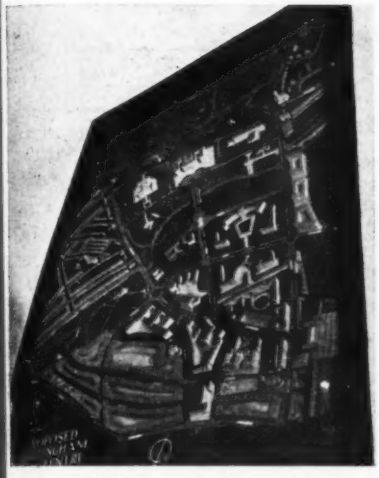
Model of new mixed secondary school at Hawtonville, Newark. Designed for the Nottinghamshire Education Committee, by E. W. Roberts, County Architect.

RECENT WORK : *DESIGNED BY*

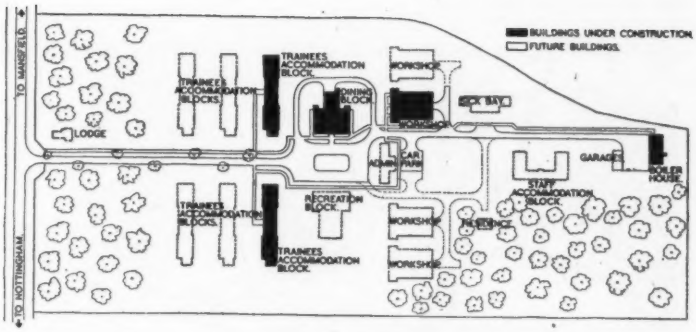


Right, model of the Portland Training College for the Disabled, now under construction at Harlow Wood, just outside Nottingham. Designed by A. N. Bromley and T. N. Cartwright.

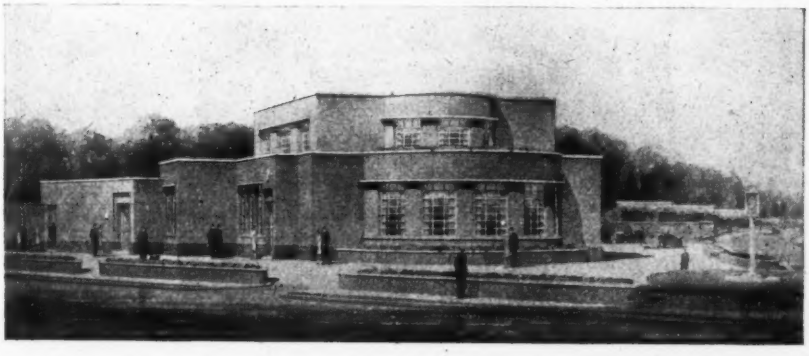




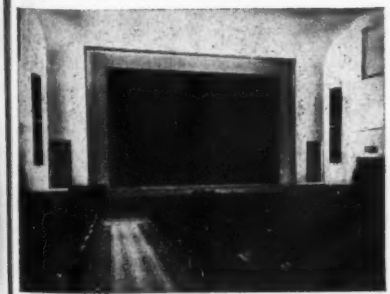
Top, model of proposed bus station, Broad Marsh, Nottingham. Above, model of new civic centre for Nottingham. Both schemes designed by R. M. Finch, the City Engineer.



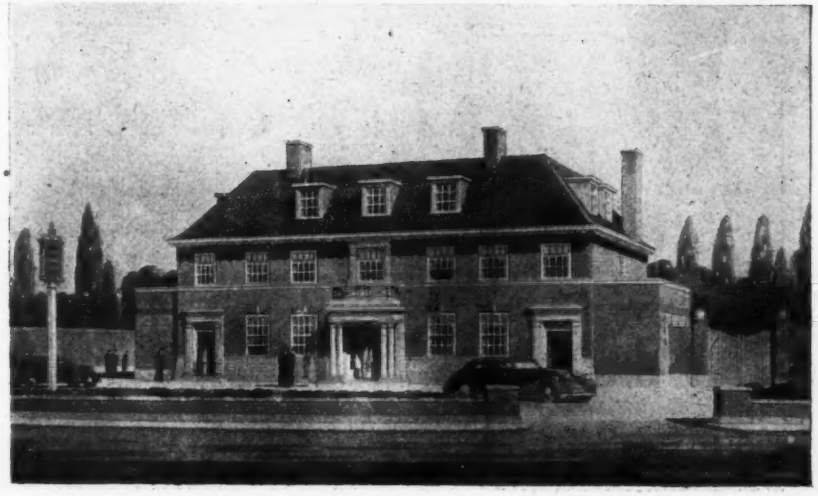
LAYOUT PLAN OF PORTLAND TRAINING COLLEGE



Right, proposed licensed house for Messrs. Hansons, Ltd. Designed by A. E. Eberlin and L. Darbyshire.



Above, interior of the new theatre for the Nottingham Co-operative Society's Arts Centre. Designed by A. W. Betts.

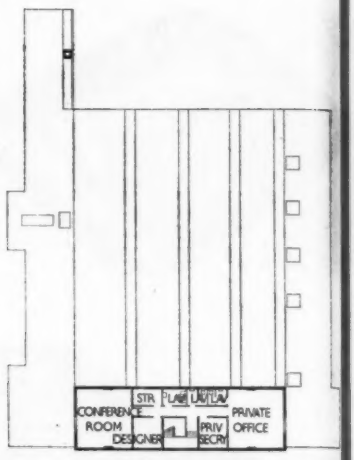


Right, Proposed licensed premises at Spalding, for Messrs. James Hole and Co. Designed by A. E. Eberlin and L. Darbyshire.

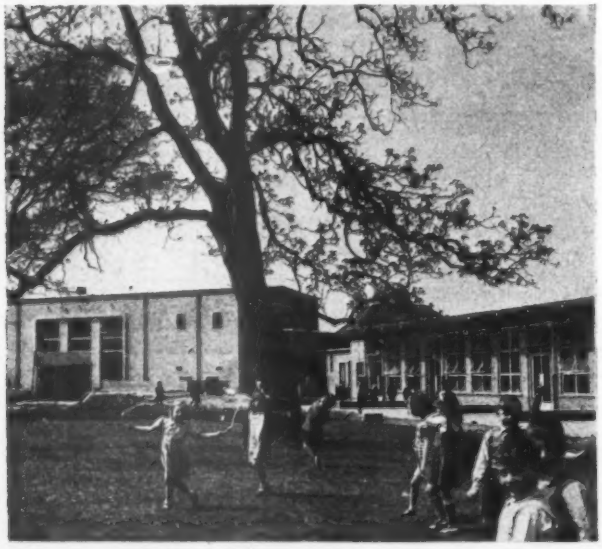
BY NOTTINGHAM ARCHITECTS



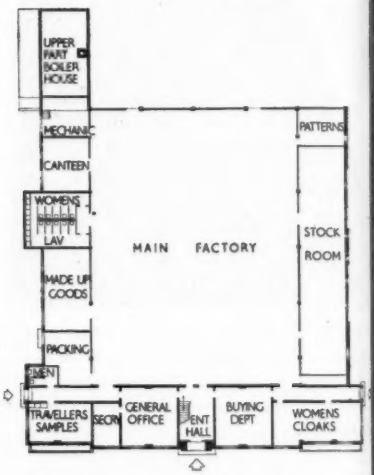
Factory at Lincoln, designed by C. F. W. Haseldine. Above, the main entrance. Right, plans of the factory.



FIRST FLOOR PLAN



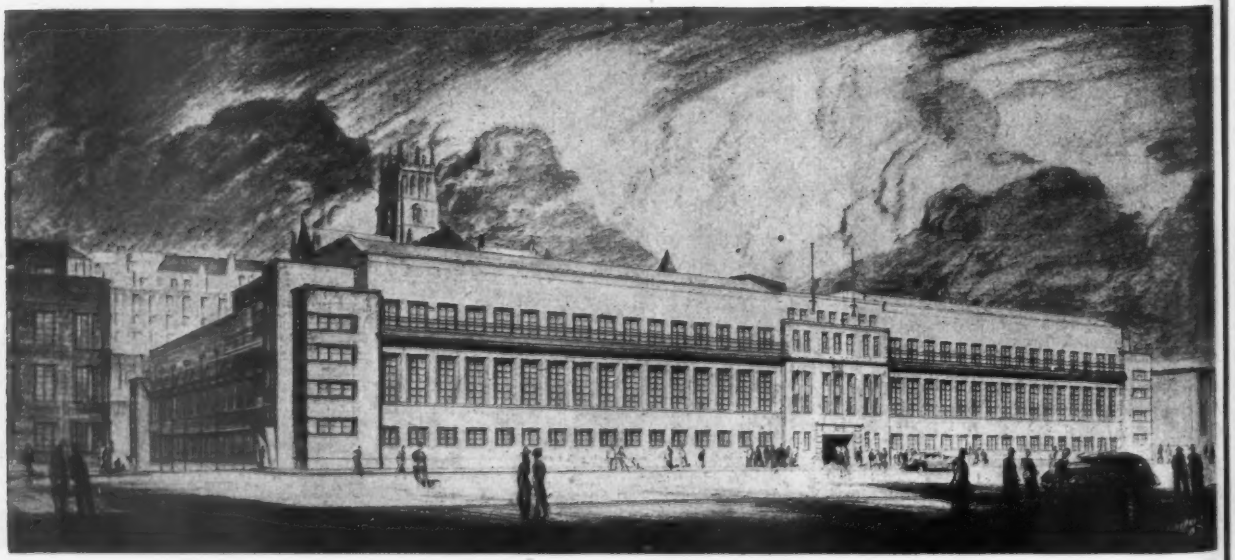
Above, new infants' school at Wadsworth Road, Stapleford, designed for the Nottinghamshire Education Committee by E. W. Roberts, County Architect.



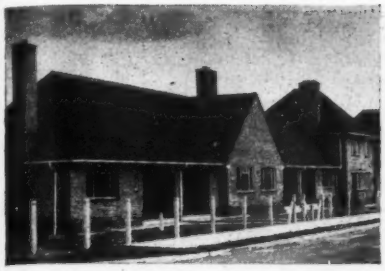
GROUND FLOOR PLAN

[Scale $\frac{1}{16}$"=1'0"]

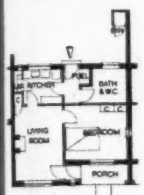
Below, perspective of the new printing works now under construction at Nottingham for Messrs. Boot's Pure Drug Co., Ltd. Designed by Percy Bartlett, Chief Architect for Boot's Ltd.



RECENT WORK : *DESIGNED BY*



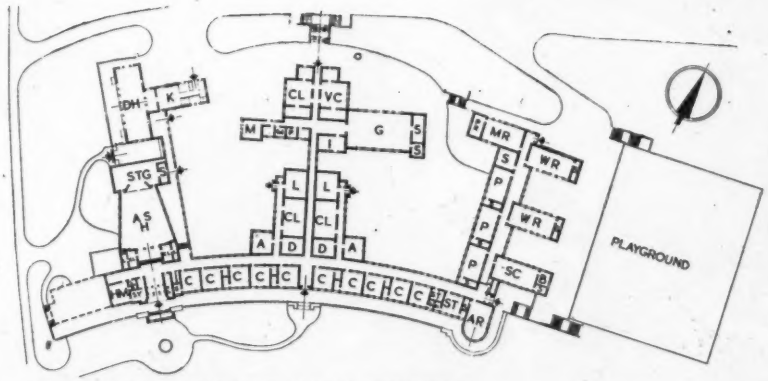
A typical block of old peoples' dwellings, which are being erected on the City of Nottingham's estate at Broxtowe. Designed by C. A. Pilkington, City Housing Architect.



PLAN OF ONE DWELLING
[Scale $\frac{1}{8}$" = 1'0"]

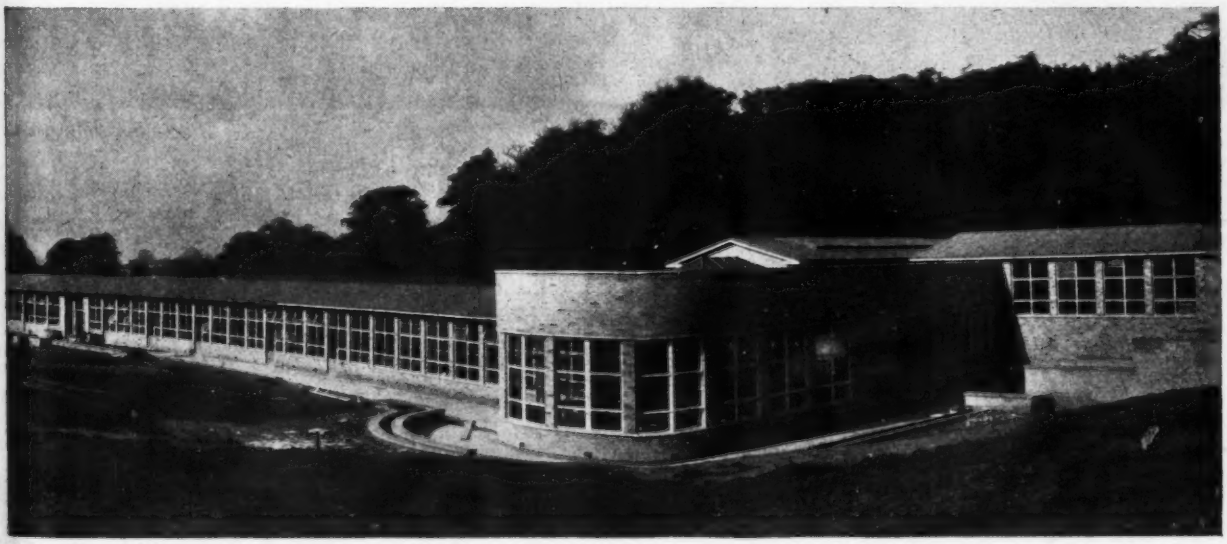
KEY TO PLAN
A Ablutions
AR Art Room
ASH Assembly Hall
B Balance Room
C Classroom
CL Cloaks
DH Dining Hall
D Drying Room
G Gymnasium
HM Head Master
I Instructor
K Kitchen
L Lavatories
ST Staff
M Music Room
MP Music Practice
MR Metal Work Room
P Practical Room
PR Preparation Room
S Store
SC Science Room
STG Stage
SY Secretaries Room
WR Woodwork Room
VC Visitors' Cloaks



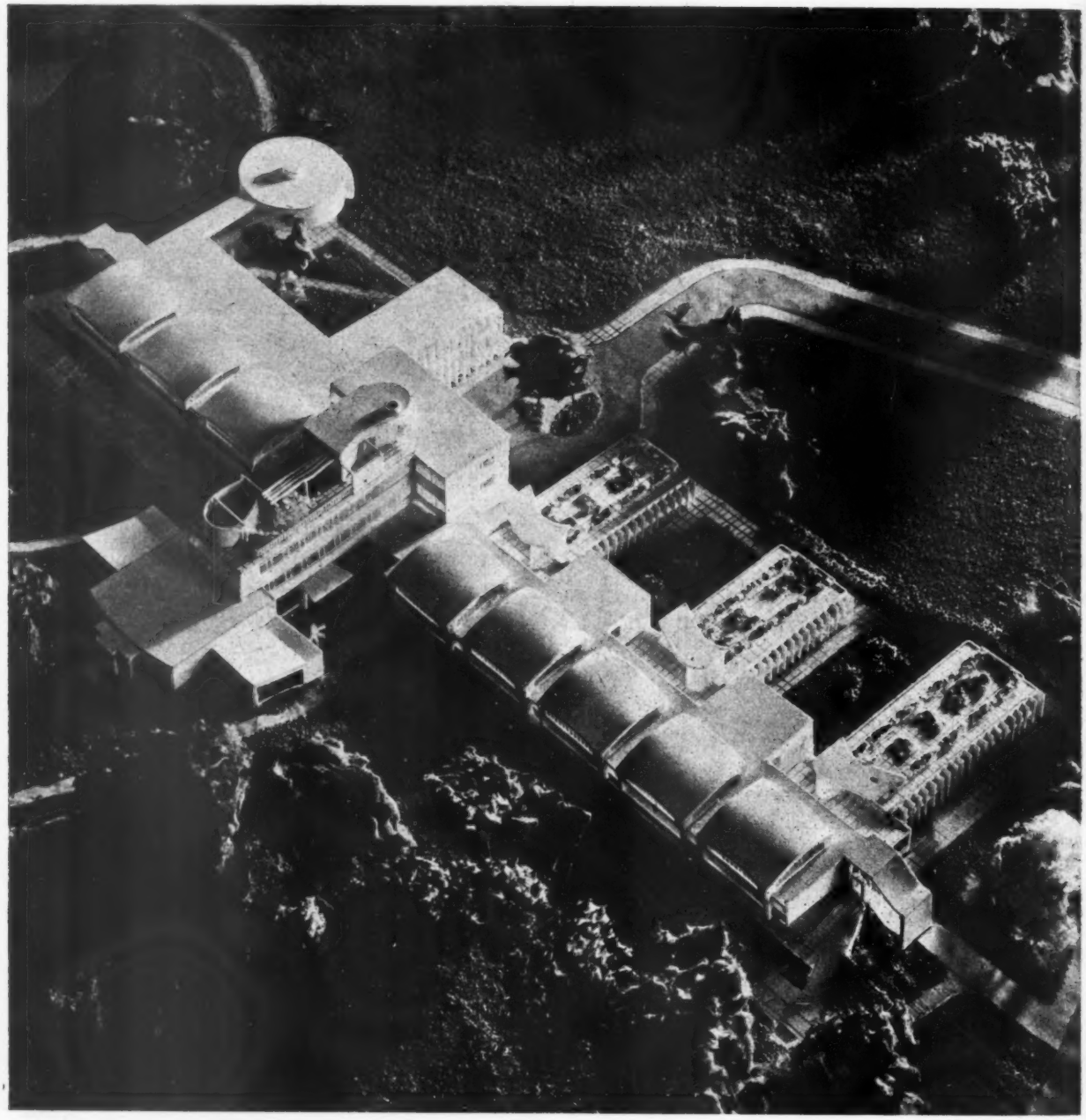


PLAN OF BRAMCOTE HILLS SCHOOL

The Bramcote Hills school site, which is being developed for the Nottinghamshire Education Committee by E. W. Roberts, County Architect. Top, a model of the complete site, which includes several schools and auxiliary buildings. Above, plan of the secondary modern school for boys, now being constructed. Below, the school from the south.



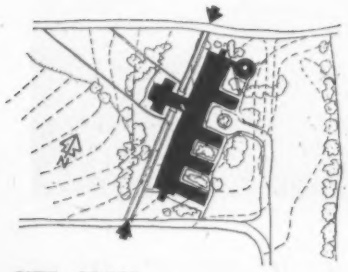
BY NOTTINGHAM ARCHITECTS



From the south-west.

LABORATORIES
FOR NOTTINGHAM UNIVERSITY

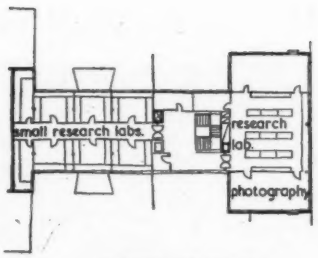
BY DAVID DU R. ABERDEEN



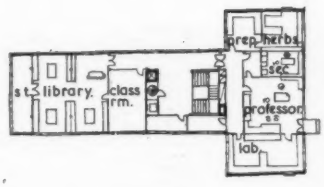
SITE PLAN

GENERAL.—These laboratories are for the departments of botany and zoology in Nottingham University. Construction is to commence this autumn with completion in the summer of 1951. The laboratories are the first of a large new group of science buildings, which, in turn, is a unit in a scheme of future development for the whole University site for which Sir Percy Thomas, as the consulting architect to the University, has prepared the master plan.

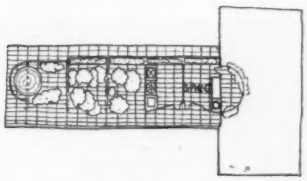
PLAN.—The botany and zoology



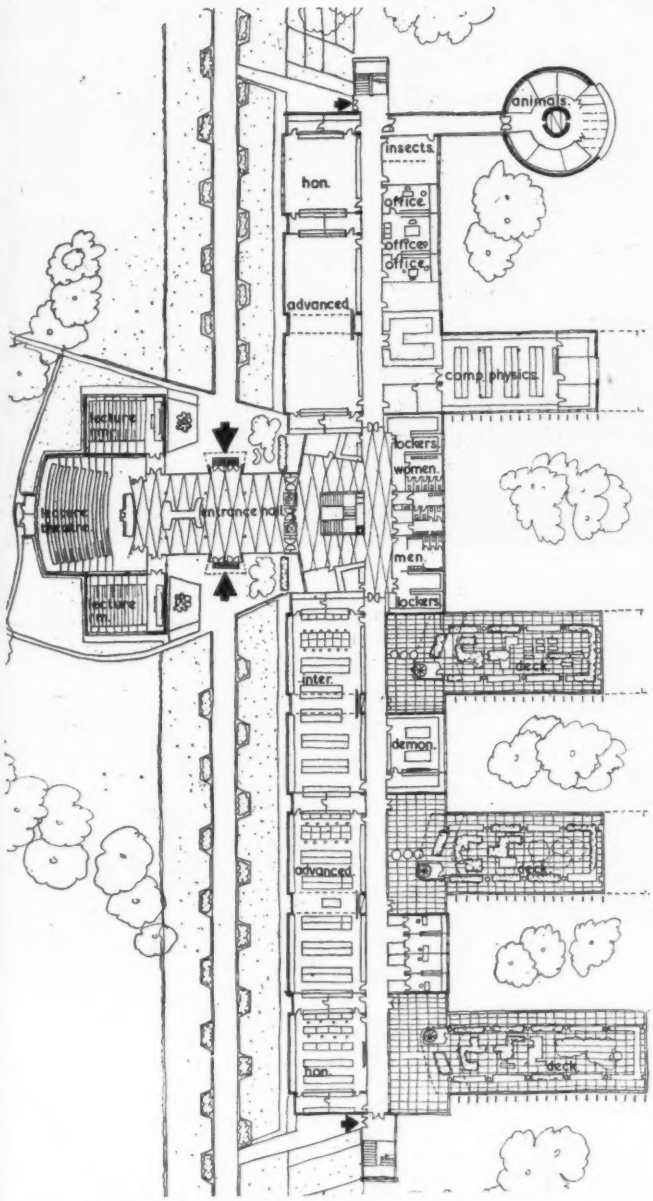
FIRST FLOOR



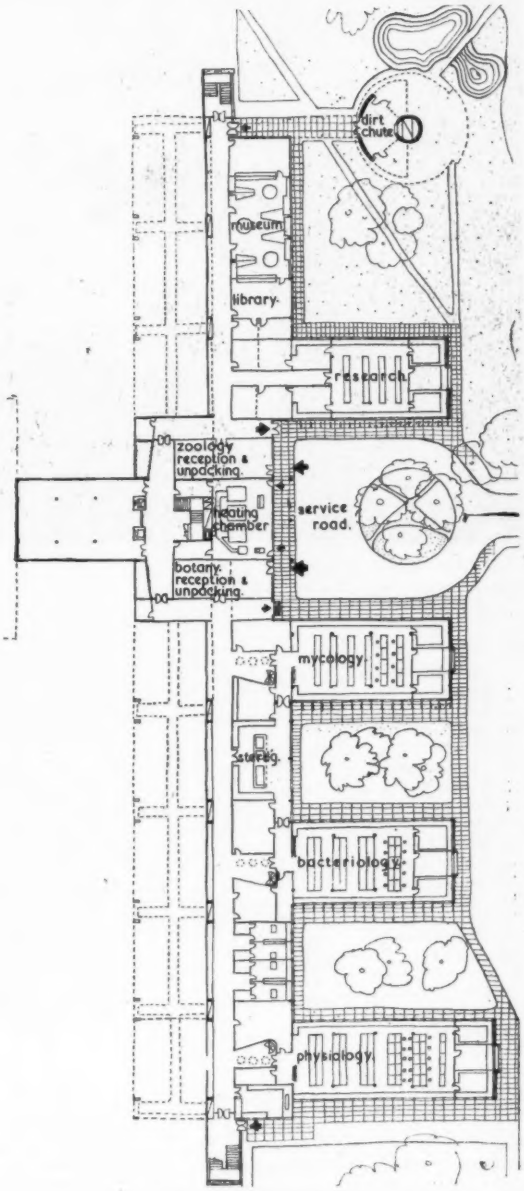
SECOND FLOOR



ROOF



UPPER GROUND FLOOR [Scale: $\frac{1}{16}$"=1'0"]

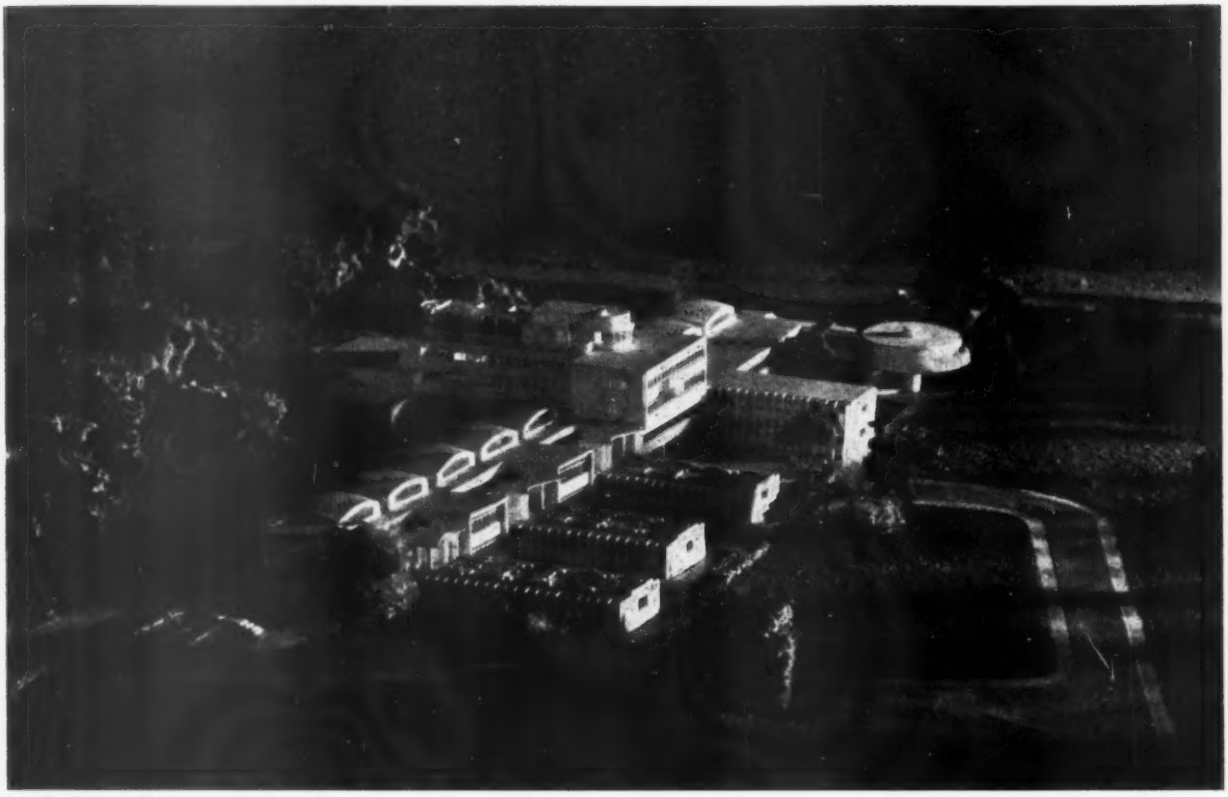


LOWER GROUND FLOOR

departments are planned as self-contained units each side of a centre joint facilities block. The botany department lies to the south and the zoology department to the north of the centre block. The reinforced concrete shell domes cover the main "run" of normal teaching laboratories and the "spurs" house the special research laboratories. The circular building on the north-east is the animal house for small specimens. This will not now be built as shown in the model, as a separate animal house is required. An additional laboratory, with greenhouses at roof level, will take the place of the circular building shown.

CONSTRUCTION.—The structural skeleton is to be of monolithic reinforced concrete, the shell domes over the upper floor labora-

LABORATORIES FOR NOTTINGHAM UNIVERSITY



From the south-east. Right, the layout plan of Nottingham University.

KEY

1 University College
2 Chapel
3 Students' Union Building
4 Spare
5 Music
6 Examinations
7 Lecture Block
8 University Press
9 Great Assembly Hall
10 Drama School
11 Library
12 Spare
13 Art School
14 Engineering, Power and Boilers
15 Physical Culture
16 Garages
17 Halls of Residence
18 University Arms Hotel
19 Housing for Staff
20 Science Blocks



tories will be copper covered. Floors throughout will be designed to give a completely flat soffite to ceilings in which the radiant heating panels will be incorporated. A cellular type of reinforced concrete construction will be employed in the "spurs" to reduce to a minimum the structural supports and permit the easy running of services when a further storey is added. All external walls and internal partitions will be entirely non-structural.

BY DAVID DU R. ABERDEEN

SOCIETIES AND INSTITUTIONS

Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. Lectures cannot usually be reported in full.

RIBA

J. H. Forshaw

June 30. Extracts from a paper on HOUSING—A SOCIAL SERVICE, read at the RIBA Conference, Nottingham.

J. H. Forshaw: The Housing Bill, which has already been passed by the House of Commons, is an important piece of history. It confirms the establishment of municipal housing as an integral part of national life. The housing work of public authorities ceases to be merely a means of providing shelter or safeguarding the health of people in the lower income groups and becomes the normal means by which a community creates and changes the physical structure of its homes. By repealing the clauses in the Housing Acts which limit their effects to the working classes alone, the Bill makes housing a social service for all classes of the community. For this reason I chose as the chief subject of this paper the aspect of housing as a social service.

I would like to give particular consideration to some of the more urgent problems which face the urban authority. The end of last year, we may say, marked the end of the initial stage in the post-war housing effort. You know, as well as I do, what has been done and what there is still to do. It might seem that the former is quite insignificant beside the latter; and, of course, it is. But the achievement of this period is something which we are glad to have behind us. We are now well started upon the next stage in which the main task is to build new houses of first rate quality. It is fortunate that during the time which has elapsed since 1945 we have had a chance to develop our still limited resources to the best advantage. For instance, we have become, of necessity, accustomed to the employment of alternative materials and new methods of construction. Permanent factory-made houses have been selected for production, and we have all been able to study their potentialities. With some prefabricated houses we have experienced disappointments and failures. But we should not throw away our knowledge gained in this hard school, as we did after the first war when supplies appeared to be improving. In this sense, it is to be hoped that the introduction of new ideas will not suddenly cease, just because to follow pre-war practice is the line of least resistance. It is true that standards of workmanship before the war were in many respects better than they are now, but taking the problem as a whole it is sheer conceit to imagine that at any time since 1918 have these standards been consistent with what science and modern technique have made possible.

HOUSING AS A SOCIAL SERVICE

The problems that I want to discuss are the more important of those which must be covered when we think of housing as a social service. Firstly, I would say something about the all important question of lay-out and site-planning, which continues to receive too little attention. In this most vital matter, concerning the environment of our new communities, I believe we must keep a clear objective in mind. I am not going to say that there has not been a considerable advance in individual house design, when some of the latest work is compared with what was done between the wars. Many of the smaller schemes, especially some rural ones, are delightful. But it cannot be repeated too often that housing committees are running the risk of disfiguring their districts if they fail to recognize the limitations of their work when the design is incomplete because the landscape setting has not received careful attention. That is why the Minister of Health strongly advises local authorities to seek the best advice, and to consult with their architects on each site proposal from the very beginning. If a housing scheme has been badly planned that district will bear a scar for generations. We have already too many layout blemishes to efface—too many slums to clear—do not let us permit any more.

I have not time here to deal with other aspects affecting the scenic character of housing areas but I would like to mention the report on "The Appearance of Housing Estates." It contains the work of a committee under the chairmanship of Lord Faringdon. Their recommendations should be the basis of vigorous action, not only in the furnishing of new work, but in all existing estates, to improve the appearance of people's homes in every way. There is also much to be gained from the book "Landscape and Housing Development," recently published by the Bourneville Village Trust.

ECONOMIES IN ARCHITECTURE

I would like to stress that while we are hoping that local authorities will continue to pay increasing attention to lay-out and planting there are some economies consonant with good architecture which they could adopt, and it is for their architectural advisers to endeavour to convince them. For example, the use of terrace blocks rather than semi-detached houses can reduce costs, and, I think, the time factor. From the viewpoint of æsthetics this is not just a matter of no consequence, it promises to restore the urban character and a quality in the architectural street which must once again emerge in our new work. The siting of house groups becomes a comparatively simple matter once this choice has been made, since the terrace gives of itself a sense of neighbourliness to the residential scene. In other ways practices are still common which involve at the same time both a waste of money and a sacrifice of visual amenity. In rural schemes there should be no hesitation in retaining or constructing a country lane when the need is for an access road and not a traffic-way. Such things as street lamps on a scale suitable for a trunk road and similar incongruities are calculated to wreck an otherwise satisfactory street picture.

Now I think there is a great danger of dealing with individual problems solely on the merits which they are imagined to have from one particular viewpoint. In fact, I believe that if we cease to consider the debatable questions of houses versus flats, terraces versus semi-detached dwellings, densities and the height of blocks, in unreal isolation from the ends which all housing plans have in view, there will be some chance of making some right decisions. These questions cannot be considered as general verbal controversies to be decided one way or the other, and ending in a single conclusion to be applied universally. To give one very important example, there was the garden city concept which certainly opened up a new field of ideas in town-planning, but which is, in essence, a contradiction in terms. Particularly in an overcrowded island like this, urban areas must always be limited in extent and therefore comparatively densely populated. A system of open siting, which is not held together by a strong physical landscape, is destructive of any sense of local unity, as well as a very serious waste of valuable open space and agricultural land.

Again, if all our natural resources of beauty are to be conserved we must act more intelligently than just in terms of giving each householder the house of his or her most bourgeois ambition—and to provide that alone—without playing fields, and without parks, community centres or theatres. In spite of the nostalgic appeal of pleasant yesterdays we must try to avoid re-creating suburbia, which somehow survived 1918, but which really died of ridicule between 1939 and 1945.

BALANCED COMMUNITIES

What then must be our policy? Although we have a great deal to learn from the past, we have also a great deal to foresee for an entirely new set of circumstances in the future. Somehow or other we must create balanced communities, villages or residential neighbourhoods such as have not been built in Britain since the Industrial Revolution began. Let me enumerate some of the requirements that this conception of the housing problem involves.

If the urban village is to be something more than a mere conglomeration of dwellings there must be some larger unit than the house or flat which is yet small enough to be immediately recognizable by every householder. I have called this unit the "house group." I need hardly say that the notion is a very loose one, but for this reason it should be more valuable as a working principle. The house group, as I have imagined it, is both an architectural and a social unit. It may consist of detached houses, a group of terraces, or a mixed group of terrace houses and higher blocks. It should, if possible, have a central feature of common advantage to the inhabitants such as a green, a garden court, or a broadwalk. In size and character it will cover as varied a selection of entities as the Royal Crescent at Bath, a minor London square, or say one of the nameless greens at Roehampton.

Another vital requirement in the creation of balanced communities is for different types of accommodation. Certainly within each residential unit, and often within each house group, there should be a variety of occupiers in order that the single-class community is not perpetuated. Not only should there be dwellings for old people, hostel accommodation for unmarried people and

family houses of different sizes, but also a deliberate effort made to provide accommodation for higher income groups. Over three years ago the Minister of Health referred in the House of Commons to the "grave civic damage" that had been caused by a policy which induced the segregation of the lower and higher income groups. And he also mentioned the æsthetically higher standard of municipal housing. As I mentioned before, he has taken these matters a stage further in the new Bill which proposes to enable local authorities to obtain financial aid for building hostels, for houses or flats built on expensive sites, and also for experimental building purposes.

It is not necessary for me to remind you that one of the proper ways of obtaining variety is to differentiate the function rather than the style of a group of buildings. A better general standard of architecture will certainly result, as it did in the eighteenth century and, in fact, in all the pre-industrial periods, from the creation of smaller, more intimate and fully representative groups of the population. It is true that there were slum areas in those spacious days, but the majority of village and town communities were well balanced, both socially and architecturally.

CHARACTER IN BUILDING

I would now like to touch on certain aspects of architectural design and character. There is a real danger of a tiresome similarity appearing in every county, unless architects are encouraged to advance the idea of assimilating characteristics in contemporary work. It is, therefore, a good sign to find that some housing authorities are fully conscious of their responsibilities and are keen to re-create the indigenous character of their architecture by using local materials. The new Bill helps with the building of new houses in stone or other appropriate materials when these are required to preserve the character of the surroundings, and involve added cost: it also helps with the restoration of dwellings of historic or architectural merit. This does not mean that modern appliances and forms of construction cannot be adapted for use in the regions where a strong architectural tradition exists. It is part of the architect's job to secure harmony between new and old work, but it certainly needs his skill and is not a task that can be assumed lightly. There are also considerable modifications, which can and should be brought about in general constructional methods to use them to best advantage in the light of modern scientific knowledge and in the interests of speed and economy. For instance, the shortage of timber makes it necessary to find other suitable and economical materials for the construction of floor and roof trusses that could be used universally in domestic work. Again, in view of the need for the greatest economy in steel, the use of pre-stressed concrete must increase beyond anything yet contemplated. The Ministry of Works has built a number of houses at Wantage, Berkshire, employing pre stressed concrete floor joists and the experiment has proved entirely satisfactory.

There is, too, the important consideration of room height and its consequent bearing on costs as well as design. The present bye-law requirement of a minimum of eight feet from floor to ceiling should, I think, be reconsidered especially in view of the much larger floor area that is now permitted. Many houses in open and exposed positions could be improved in comfort and in weathering properties, as well as appearance, by a reduction in height, thereby showing a considerable saving in the amount of materials used, and having no adverse effect on health. It is also worth noticing, from the architect's point of view, that the scope of housing has been further enlarged by the power, to be conferred on local authorities, to provide restaurants and laundries, and to sell furniture to their tenants. These provisions make possible, in their various ways, an additional enjoyment of modern facilities and well designed goods, which it ought to be the architect's purpose to advance.

In this, as in many other matters, much must depend on the mutual trust existing between official and private architects in their respective fields. I believe that there must be more understanding between the professional brothers, and, if we read the "straws" aright, this is growing up where the practice of working together has been initiated by certain counties. An interesting experiment, in an even larger field, is the programmed co-operation of the teams and firms now working together on the permanent architectural exhibits for the Festival of Britain 1951. Just as the central government is ready to deploy duties and decentralize, so it should be an increasing practice on the part of the larger local authorities. In the execution of work of technical character it will become, if it is not already, essential to engage private professional men on an increasing scale. On physical grounds alone it will give the relief that large programmes must make necessary.

In another aspect of architectural quality, the signs are not so good. The present generation of architects rightly praises the work of the Georgians, but it cannot afford to copy them. Reproduction furniture must always have a poor saleroom value, and in the same way posterity has never admired "pure" period architecture created out of its due time. I am, of course, addressing these particular thoughts to you believing that your obvious concern is for good architecture in general, and my particular duties with the work of local authorities makes this a matter upon which you would expect me to express an opinion. Housing, or rather all that is embraced in the term domestic architecture, is likely to continue to be the main contribution of the profession for many more years. Doubtless we shall not be able to achieve all that is desirable in the execution and fulfilment of our commissions, but if we who are members of this Royal Institute hold common aspirations and a unity of purpose, then many of our aims should be secured through the instrument of the new housing bill. There are grave dangers of course, but if the country makes the best use of its architects we shall build homes in the next half century of greater diversity and distinction than ever before. By this I mean houses of less uniform accommodation, shape, height and texture, but more uniform quality; and we may hope to recognize a change as we pass from county to county, or at any rate from region to region.

It seems clear that if we are to achieve any real social progress, the world must find a synthesis between the system that makes the individual the sole criterion and that which regards him solely as a member of the state. We are inclined to fall down at the point when we forget that no man or nation can do or be everything. The social problems of our age, therefore, are urgent for two reasons, first because to be effective, action must be correspondingly more rapid, and second because they require a greater exercise of conscious choice. Not only is there not time for everything, neither is there logically room for everything—"No man can serve two masters." If we do not bear these two facts in mind all our plans will lose the name of action. For example, the magnitude of the annual building programmes and consequently the progress on the lines discussed in this paper depends—first and last—on economic stability. Quite apart from the vital question of finance the physical difficulties of maintaining adequate supplies of certain raw materials, particularly steel and timber will continue for some years to impede progress and recovery. Much will depend also on the strength of labour available and on the ability of the building industry to improve output by adapting its organizations to the changing circumstances. If the urgent need for the application of new methods and constructions is accepted with goodwill by all branches, the industry can make the greatest contribution to rehabilitation. Thus on all sides prejudices will have to be dissolved and changes accepted.

ETHICS AND ARCHITECTURE

It is probably because the prevailing ethics of the modern world have been strictly utilitarian, that we have neglected to examine very closely the ends towards which the social services are directed. I cannot help thinking that unless a consciousness of those ultimate ends is restored, those responsible for housing or any other social service will never get their work in the right perspective. I would like to quote from a speech which Princess Elizabeth made in Belfast last month. Her Royal Highness said: "It would be the greatest service to mankind if the British peoples, who set the standard of law and justice for so many countries and who are now leading the world in the establishment of social security, should also be the pioneers of a moral and spiritual revival without which all their great material achievements will have been in vain." The profession of architecture has never been prone to specialization and therefore I think it is reasonable to believe that it can give a lead in the process of restoring to all groups and professions in the Nation, an application of positive moral values. I would therefore conclude with the plea that while our constant aim in housing must be to make life happier and easier for every family, we must also seek to develop the spiritual as well as æsthetic values of family life and local leadership by embodying them in the physical environments of the community. We shall thus, by degrees, induce them in the minds of every individual, in whom those values will evolve, and again be passed on to later generations through the same vehicle.

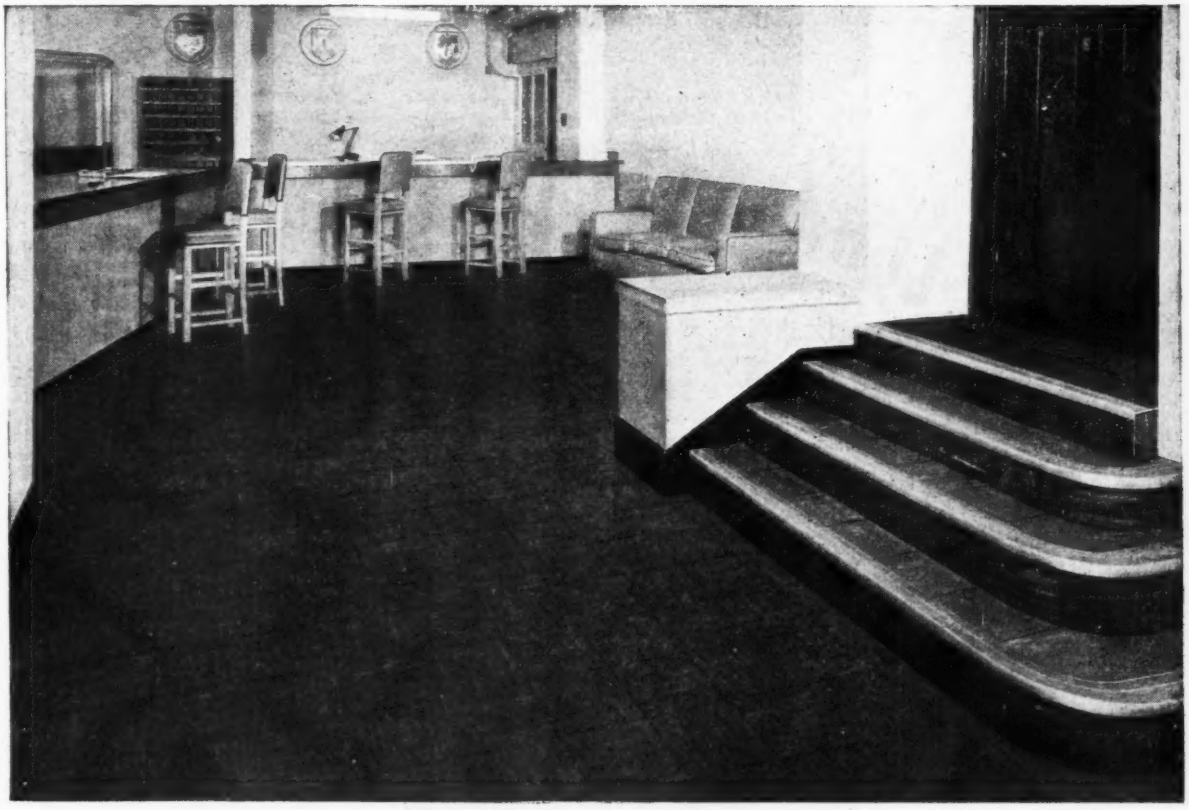
If this is the right way to look at the housing problem it means that the architectural profession and educated public opinion in general has a very great responsibility, which, although shared with the public authorities, cannot be left solely to them. In short, it is the duty of architects to show their clients how the new communities can and should be built.

RIBA

T. Cecil Howitt

July 1. Extracts from a paper on PRE-WAR TO POST-WAR HOUSING, given to the members of the RIBA Conference at Nottingham.

T. Cecil Howitt: When I was asked by the Council of the RIBA to read a paper on this subject, I felt that there was really nothing very new to say. Looking at the matter again, however, I felt that possibly a very interesting comparison could be drawn between the houses erected between the two great wars and the post-war houses that have recently been built, and that it would be of particular interest to see where improvements in standard and design have been achieved. I propose to confine my remarks to the individual houses.



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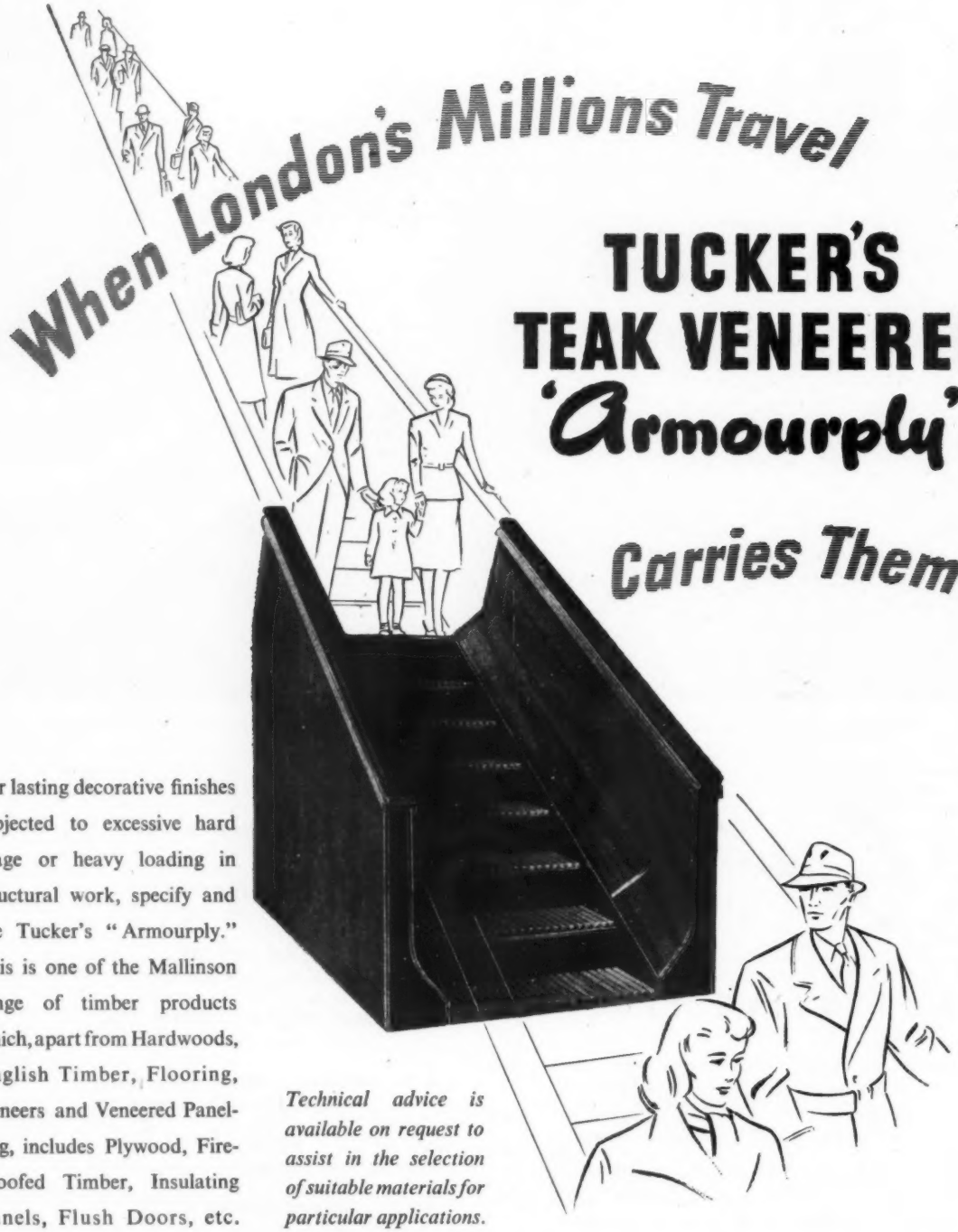
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Firstly, what have we really achieved? Between 1918 and 1939 there were erected in England and Wales over four million houses. Of this number three million were erected by private enterprise and one million by local authorities. In the post-war period after the second great war, up to the end of March of this year, the total number of houses erected was 557,708 and of these 451,467 were erected by local authorities and government departments, and 106,241 by private enterprise. Out of this total, 344,431 were of the traditional type, 88,301 in prefabricated construction and 124,970 temporary bungalows. In these various programmes there have naturally been shortcomings, but on the whole it is indeed a very fine achievement. No nation can boast of such large numbers of houses in relation to population, and considering the very high standard of the living accommodation that has been established, it gives one a real thrill, and one is indeed proud to be British.

As this conference is being held in Nottingham, it is fitting to note that the City of Nottingham with its Housing Committee under the chairmanship of Alderman William Crane, J.P., played a really important part. In the between-war period, the city erected one house to every fourteen of its population. This, I believe, is a record for any authority in the country. Since the last war to the end of March of this year the city has erected 3,295 houses; of these 1,150 are in traditional construction, 1,145 prefabricated construction and 1,000 temporary bungalows.

HOUSING DENSITIES

When travelling over the country, one often hears the question, "Why do these large estates look so terribly dull and uninteresting?" This, I believe, is because there is a feeling that they are only local authority houses and it really doesn't matter very much. Probably one of the main reasons for the undue monotony is that at a very early stage the idea was created that there should be so many houses built to the acre, 8, 10 or 12, as the case may be, and without really serious consideration architects automatically began to think in terms of houses to the acre.

My own feeling is that if densities had, in the early days, been described as so many *persons* to the acre (as suggested in the 1944 MOH Manual), there would have been a considerably greater interest in design, such as masses of blocks with varying standards of accommodation, the introduction of groups of terrace houses, occasional blocks of tall flats, and special accommodation for old and single people. A mixture of this character could not help but give really interesting groupings, and an attractive changing skyline that is generally lacking.

There is another very simple and interesting method of controlling the density which I am sure could not fail to be effective; that is, to have the garden and curtilage space in a definite ratio to the total floor space of the bungalow, house or block of flats. Any simple basic figure could be adopted, and it would be very easy indeed to administer. Given a 3 to 1 ratio on the floor space, a house containing 900 square ft. floor area would require 300 square yd. of open space, which is in effect 12 houses to the acre.

To plan a small house, in order that each square foot of floor space allowed is made usable and a minimum is lost in the way of approaches and connections, is a very difficult problem. The great point I really wish to make is, "How is the small house plan changing, and are all the new arrangements to the good?" Undoubtedly, the small detached house is the ideal from practically every angle, but it is a design that is far too expensive. Semi-detached houses are popular with the tenant, but these create a monotonous appearance that should not be allowed. To develop any real effect satisfying to the eye, one must consider on each occasion the grouping of blocks and the introduction of various types of property.

My own experience is that houses facing north with the plan properly orientated is on most occasions unpopular with the tenant, possibly because the occupant loses an outlook on the approach road.

The MOH Manual, 1944, has really sound advice to all house planners, if they carefully study each paragraph, its implications and suggestions, and also if they take seriously to heart the information that can be given by members of the local housing committees and their staff.

When a small number of houses have been occupied for a short time an opinion as to their success should be gathered from the experiences of the first few tenants who have been in occupation. To live in any house for a few months often gives an impression different from the theoretical view planned on paper in the early stages.

The three-storey terrace house recently planned by the Ministry of Health follows the tradition of many English towns, and it is a very interesting design. On congested sites it is really necessary to build upwards instead of spreading sideways. Living rooms should be on the ground floor, and sleeping accommodation on the first and second floors. (The children could readily have the upper two bedrooms to themselves).

New methods of construction have, at this very difficult after-war period, produced great numbers of houses—a really loyal service. When one reviews costs, however, it is difficult to select any one method that has proved really outstanding in efficiency. The temporary building programme has supplied effectively a very urgent need and given really well equipped internal accommodation. I would, however, suggest that in short life building so much must be provided of a permanent character that it is advisable to erect the whole building permanently. Short-life building in this country must be regarded as a luxury.

EXPLOITING NATURAL FEATURES

Most architects, I think, have certain fads or eccentricities in design, that give that extra charm and variety; but broadly speaking, their designs still follow the same basic principles. One must rely on the general mass for effect and skyline, a design base or platform for the house, proper choice of materials, colour, and roof pitches, and a really good overhanging eaves. Most people think this is to create shadows, but it is really to keep the outer walls more dry. Finally, really well designed ancillary buildings are essential. Every natural feature, such as a fine tree, groups of trees or a small pool, must be exploited to the full to give the particular estate its own individuality. We must attack the "currant loaf design," the estate being the loaf, and the currants the evenly distributed semi-detached blocks. It should be easy to vary the layout with long blocks of terrace houses and flats of varying height. A block of four houses is considerably improved by a bungalow treatment at each end, designed to accommodate old people. Old people really want to mix with the other people on the estate and not be planted in a special colony of their own.

The late Percy Hufton was very keen on establishing a constant pitch for roofs at 47½° with gables at varying levels. In the earlier days this method was also used by the LCC, and the designs are an object lesson of good taste.

Very small window voids look extremely attractive; but one must think of the people inside, seated on low chairs. Low window sills with views into the garden are more attractive to the tenant than any view from the outside could be.

The elimination of any front fences or hedges to the forecourts is a feature I feel could, with very great advantage, be adopted much more. These fences and hedges just act as traps for waste paper and leaves. If the forecourt can be slightly raised as a base to the building with dwarf walls some 18 in. to 21 in. high, then the effect is still more satisfactory. A great number of authorities have now adopted this method and in cases like Newport, Mon., the authority takes over the upkeep of the forecourts. This still leaves the tenant with the planting of the private garden at the back of the house.

The ancillary buildings which are so essential to form a satisfactory unit must occupy the most prominent position on any development, and these, such as the church, the shop, the hotel, or the communal centre, should become the focal points of interest. I would like you to think of the many estates you have seen ruined by the commercial aspect playing far too big a part in the settlement of these essential features.

Do please, give the tenant a sporting chance of making an attractive garden. Give him a good depth of real loam soil arranged at reasonable levels, not just thinly covered mortar pits or dumps. Provide essential main grottos or retaining walls, and at salient points arrange a little main planting to encourage a special interest for the adjoining areas.

ESSENTIAL EQUIPMENT

There are certain items of equipment that must be arranged for any house at all costs. The main question is, should the house finished by the builder be just an empty house, or one that is 25 per cent. to 30 per cent. furnished, thus avoiding large furnishing costs? Both the designs are similar on key plan; the real points to watch are whether the specification is clear, and what cost will be saved in the furnishing items in the designs proposed.

Unfortunately the cutting out of various furnishing items and the lowering of standards is an easy policy to adopt, but it should be rigidly avoided.

Possibly the main item of equipment is the cooker, and here one should consider the type of fuel that is available in the particular district.

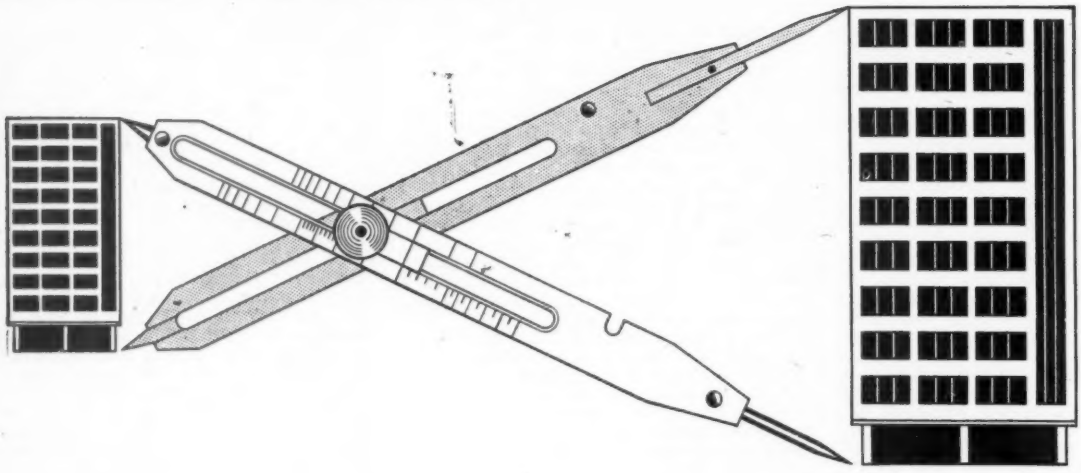
For the sitting-room, the natural open hearth fire with the best type of local fuel available in order to give a really cosy fireside, is essential; and if at all possible, it would be a great advantage to provide, at the same time, a certain amount of space heating for the bedrooms. From my own experience, through-type ranges with the open fire on one side have not proved particularly popular with the tenants.

It is amazing how often insufficient consideration is given to the size of the table for the preparation of food. The ordinary size drainer to the sink is not in any way adequate; and when working at the table it should be possible to command a view over the garden. The sink with the double width drainer at a width of 5 ft. 3 in. is essential and has really come to stay. I would like to see dual sinks with the central swivel mixing taps, but this is indeed a luxury that one cannot hope for.

Ventilated cupboards for food and efficiently designed cupboards for brooms, crockery and groceries are essential.

Secondary cooking equipment and a washing copper that can be tucked away and easily filled and emptied, are advisable; and I would press very strongly for a refrigerator, however small, as I forecast that in a few years time most of our foods in this country will be delivered frozen.

Approximately one third of the floor area of any house is generally occupied for only 8 hours, or one third of the day. This seems all wrong.



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Additional warmth, which can be added without much trouble to the three bedrooms, would allow more use of these for reading, studying and sewing. Surely this small amount of additional cost for heating is justified in order to take advantage of this floor space.

Two-tier beds, on the lines of a liner, are excellent, not only for children, but for grown-ups, and they add a considerable amount of space to the available floor area.

Hanging wardrobes for clothes must be bulky in order to give their effective 22 in. deep hanging space; and if they cannot be afforded, surely a curtained recess can be planned as an alternative. An extra wide window board might even save the cost of a dressing table.

Electric plugs, particularly for light power, are expensive; but as they are so difficult to add later on, it is wise to provide these really efficiently.

NORMAL BUILDING COSTS

Any comments that I may now make with regard to costs refer, in all cases, to a building on a normal site, including the cost of the footpaths, fences and drains belonging to the house, but not, of course, site and main roadway costs. On specially difficult or hilly sites there would obviously be additional items for abnormal works.

From the very great number of questions one gets, one realises that what the man in the street really wants to know is the reason the costs of houses in 1949 are so high, and where all the money goes.

Stanley Ramsey, a past vice-president of our Institute and a great personality on housing, wrote in *The Times* on March 25 this year, that "house costs were up on 1939 figures to the extent of 225 per cent., whereas ordinary building costs were only 110 per cent. up." This latter figure may be a little optimistic, and the ordinary building costs may lie between 130 to 140 per cent. above pre-war values, according to the type of building. How is all this increased cost to be explained, this amazing figure of 225 per cent. increase?

The 850 ft. super house of the Tudor Walter standard, tendered for at the end of 1919, throughout 1920, and in the early part of 1921, under the Addison Scheme, cost £990 in Nottingham, and in other parts of the country some £1,100 to £1,200 per house. (We are always a little fortunate in the East Midlands area in that building costs are some 10 to 15 per cent. less than in other parts of the country). It was obvious that this figure was so out of gear that contracts of that nature could not last, and there were many cases where agreed contracts were cancelled by mutual agreement, and the payment of some £40 to £50 a house, without the contractors carrying out any work.

In the latter half of 1921, and in 1922 the price of a similar house fell to an average figure of £460. Even this figure was not low enough, and there was a general attack on the standard of floor areas. This resulted in a floor area figure as low as 770 ft. super for the non-parlour type of house, and prices came down to an average of £360 between the years 1926 to 1928.

The average price of a house in 1922 was £460. This was considered far too high in relation to the rental that could be charged. For this reason, a very interesting experiment was tried out in Nottingham. Houses were designed to ensure a small rental figure, rather than to give the accommodation that one would really wish to offer. The problem became "what type of house can we get for a capital expenditure of £300 regardless of the size of floor space and the amount of internal fittings and equipment?" There were many small sites in this city already completed with the necessary roadworks and sewers, and the only possible solution was to build a terrace house on a narrow frontage in blocks of 4, 6 or 8 houses. For a two-bedroom house the solution is naturally a very easy one, with one room to the front and one to the back, but as a third bedroom was considered essential there was no alternative but to place this on the second floor of the house with a gable end or dormer treatment. In this way it was possible to give a good third bedroom, with a floor space of 101 square feet.

In 1922 the first group of houses on this method was tendered for at a figure of £298 10s. 0d. per house, and the final contract price was slightly less than this figure. The houses were traditionally built with cavity walls, facing bricks, and a clay tiled roof, and without in any way reducing the standard specification that prevailed at that time.

The solution was a very successful one; numerous contracts were completed at a very similar figure, and there is no doubt that it had the effect of reducing considerably the standard price of a three bedroom house throughout the country at that period.

Returning to the present day cost of a house, say £1,250 to £1,300; this amount is slightly in excess of 3¼ times the values prevailing in 1939. The following comments are, I think, a fairly accurate account:—(*a*) The 1949 house contains a very considerable increase in floor space, and has, in addition, a really good outbuilding: all this costs approximately £210; (*b*) the 1949 house is better in construction and there is a very much higher standard of equipment; this increases the cost of the house roughly by $\frac{1}{10}$, a capital amount of £130; (*c*) on the question of labour, the additional cost for the 1949 house is £320. This consists of £80 due to increased housing standards, £110 due to increased wages, and £130 through lack of production.

The present-day costs of essential materials owing to shortage of supplies are most striking. Timber is up by 250 per cent., bricks by 110 per cent., and cement by 44 per cent.

This absorbs a further £480 of the increased cost of the house, £290 of this amount being due to increased prices and £190 to the costs of new materials and items introduced.

An increase in overheads and profit to the contractor is represented in the cost on each house by a figure of approximately £80.

REASON FOR INCREASED COSTS

In an accurate mathematical computation of these costs, it will be seen that they exceed somewhat the total increase on the house now stated to cost £1,250 to £1,300. This is due to the fact that items such as better construction and increased cost of labour, naturally overlap to some extent with the material increases. It would seem almost impossible to give a more accurate reason as to why houses are costing us so much.

Taking all these figures into account and reviewing the somewhat slower progress than that which is desired, it is of particular interest to note that the same labour force today produces only approximately half the number of houses it did in 1938, the exact figures being: 1938, 100 per cent. labour used, and 1949, 196 per cent. labour used.

With all these figures before you, you may ask, "How is all this cost to be cut down to give a more reasonable rental?" The first-class equipment of the house has come to stay and standards should not on any account be cut.

The blocks of excellent out-buildings are one of the best features of present-day housing and are worth more than they cost for the comfort they give to the tenants. Therefore, to keep costs down, I suggest that floor space should be stabilized and not further increased, that designs must be kept more simple, and that there should also be considerably more competition from private enterprise.

Announcements

The British Standard for Wrought Aluminium Rainwater Goods (B.S. 1543:1949) is available from the BSI, 28, Victoria Street, S.W.1, at 2s. 6d. post free.

A "Directory of British Rubber Manufacturers and Products" has been issued by the Federation of British Rubber Manufacturers' Associations, 43, Bedford Square, W.C.1.

Mr. C. Worthington, A.R.I.B.A., A.I.STRUCT.E., chartered architect, of 7, Clarendon Place, Maidstone, Kent, has taken into partnership Mr. R. Protheroe George, A.I.A.S., corporate surveyor, who has recently resigned his appointment with the Woking UDC. The practice will continue at the above address (tel.: Maidstone 3079) as Worthington & Protheroe George.

Mr. Frederick MacManus, F.R.I.B.A., has resigned his appointment as architect to the English Joinery Manufacturers' Association (Incorporated) and has entered into partnership with Mr. Edward Armstrong, F.R.I.B.A., who has also taken Mr. E. Howard Sadler, A.R.I.B.A., A.M.I.STRUCT.E., into partnership as an associate partner. The firm will be known as Edward Armstrong and Frederick MacManus, and the practice will be carried on at 19, Manchester Square, W.1.

Mr. James M. Knowles, A.R.I.B.A., A.R.I.C.S., A.M.T.P.I., has moved his office from 9, St Leonards Terrace, S.W.3, to 32, Old Queen Street, S.W.1 (tel.: Whitehall 0909). He will be pleased to receive trade catalogues.

We have been asked to give prominence to the fact that the firm of Herbert Ward & Partners, at 4, Bute Street, South Kensington, and late of Holborn, is in no way connected with the firm of Ward & Partners, of Red Lion Square, who were recently fined for carrying on a business as architects without being properly registered.

Owing to the reconstruction of the city centre, Alec F. French, F.R.I.B.A., has transferred his office from Westminster Bank Chambers, 22, Bedford Street, Plymouth, to temporary premises at 23, Westwell Street, Plymouth (adjoining the Guildhall): (tel.: Plymouth 5913).

Mr. J. A. Jenkins, of the Belper RDC, "Field Head House," Belper, Derbyshire, would be pleased to receive trade catalogues, information sheets, and technical literature.

The telephone number of Messrs. The Penmaenmawr & Trinidad Lake Asphalt Co. Ltd., of National Bank Building, Fenwick Street, Liverpool 2, has been changed to Liverpool, Central 8591.

Mr. W. C. Lawson, the secretary of Bryce, White & Co., Ltd., retired on June 15 after 46 years' service with the company. Mr. H. W. Cole has been appointed secretary, and Mr. C. E. Phillips as manager at Langley. Both Mr. Cole and Mr. Phillips have been assistant managers for a number of years, and have been with the company for 28 and 29 years respectively.

Mr. Clive Pascall, A.R.I.B.A., has changed his address to 124, Victoria Street, S.W.1 (tel.: Victoria 0994).

The Lead Industries Development Council states that lead and sheet and pipe are now in plentiful supply at reduced prices and there are no restrictions on their specification.

The Ministry of Supply announces that its selling prices of virgin lead and zinc have been reduced by £17 and £5 per ton respectively. The new selling prices per ton delivered are:—Good soft pig lead, £106; good ordinary brand and prime western zinc, £101; refined electrolytic zinc, £101 15s.; not less than 99.99 per cent. pure zinc, £103 5s.

Mr. Bernard Engle, F.R.I.B.A., F.I.A.A., has been appointed honorary architect for the

design of the Margaret McMillan Memorial Training College, Bradford.

At a recent meeting of the Council of the English Joinery Manufacturers' Association (Incorporated), when the president, Mr. John Duxbury, was in the chair, Messrs. Tom M. Scotney, Ltd., of London Road Saw Mills, St. Ives, Hunts, were elected members of the Association.

Messrs. Covell and Matthews, architects, have moved to 48, Seymour Street, Portman Square, W.1 (tel.: Paddington 6188).

Mr. G. A. Findlay, director and general sales manager of the North British Rubber Co., has retired after 53 years' service with the company.

The Scottish Association of Manufacturing Coppersmiths, in agreement with the MOW, reduced its maximum selling prices twice during the month of June. The first reduction, 4 per cent. on the maximum selling prices, took effect from June 6. Following the further price reduction in copper and zinc, the maximum selling prices of the Scottish Association have been lowered by a further 4 per cent., with effect from June 23, 1949. The Copper Cylinder and Boiler Manufacturers' Association has recently made two reductions in current maximum selling prices, one of approximately 4 per cent., with effect from May 19, 1949, the second of approximately 5 per cent., with effect from June 20, 1949. In both cases the revised prices reflect the recently announced reductions in the cost of raw materials.

The BOT Imported Softwood Prices Order, 1949, which came into force on June 20, provides revised maximum ex-ship prices for imported softwood.

Broadly, the new Order reduces the prices of the lower qualities, and increases those of the better ones; the general level of prices has been maintained. The purpose is to bring the prices for individual kinds of softwood into a closer relationship with relative c.i.f. costs and market values in this country. The flat rate increases which had to be made in the statutory maximum prices of softwood during and after the war (due to the rise in prices in supplying countries), have resulted in many anomalies in prices as between the various species, grades and sizes. The new Order removes most of these anomalies.

The Timber (Charges) (No. 10) Order, 1949, made by the Treasury which also came into force on June 20, imposes charges, corresponding to the increases in price, on quota holders' stocks of imported softwood. Losses on quota holders' stocks due to the reductions in prices will be met by the Board of Trade under the softwood "Fall Clause," as agreed with the Timber Trade Federation.

Copies of the Imported Softwood Prices Order, 1949, and of the Timber (Charges) (No. 10) Order, 1949, can be obtained through any bookseller or newsagent, or direct from the Sales Offices of HMSO, price 1s. and 1s. 4d. respectively.

The MOW has confirmed a reduction of £13 15s. per ton in the maximum selling price of lead sheet and pipe. This reduction operates on all sales made on and after June 10, 1949. Following reductions in the prices of copper and zinc, an agreement has been reached with the Scottish Association of Manufacturing Coppersmiths under which the Association's maximum selling prices for copper cylinders and boilers have been reduced by 4 per cent. with effect from June 6, 1949. The prices for combination cylinders remain unchanged.

The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

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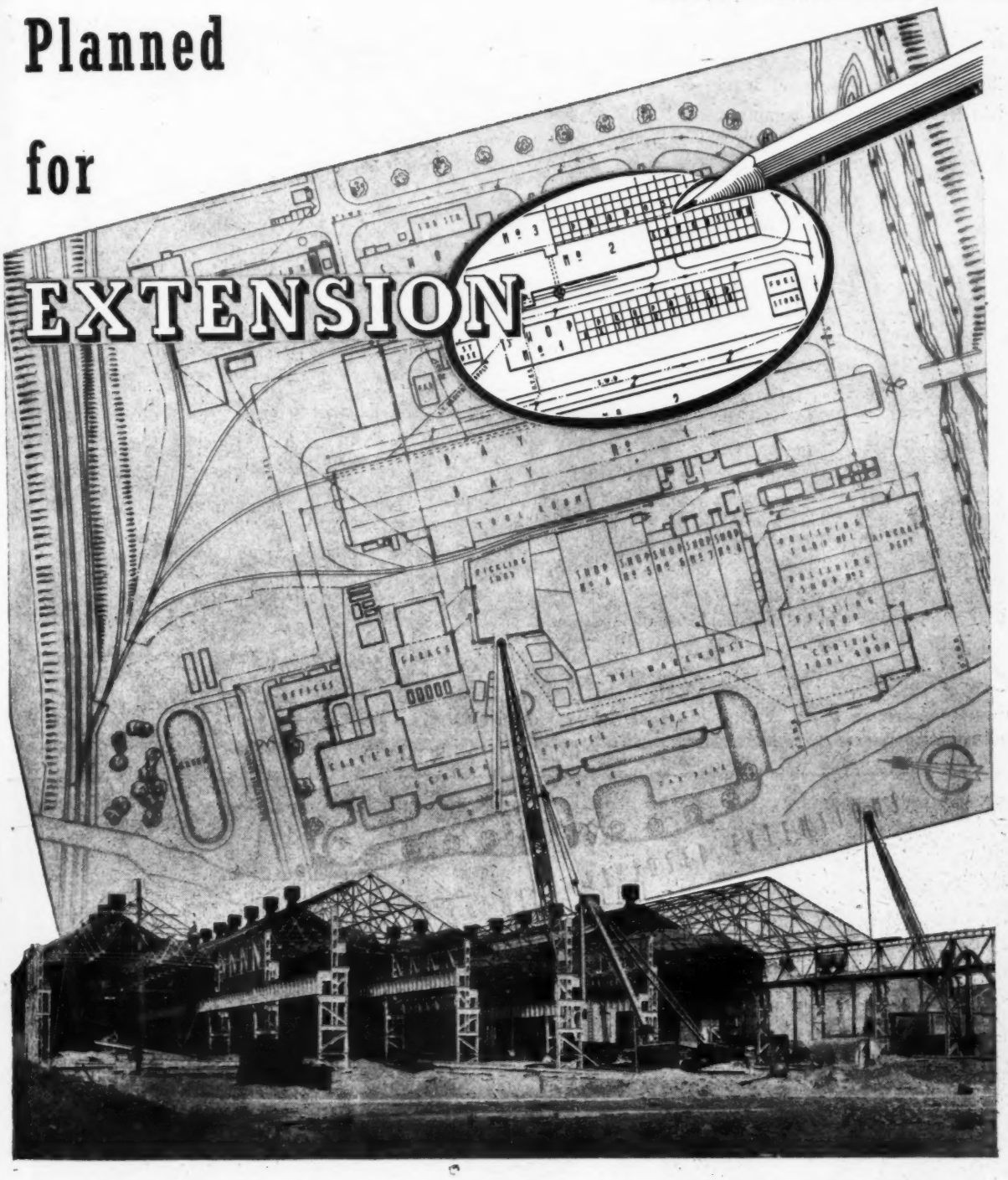
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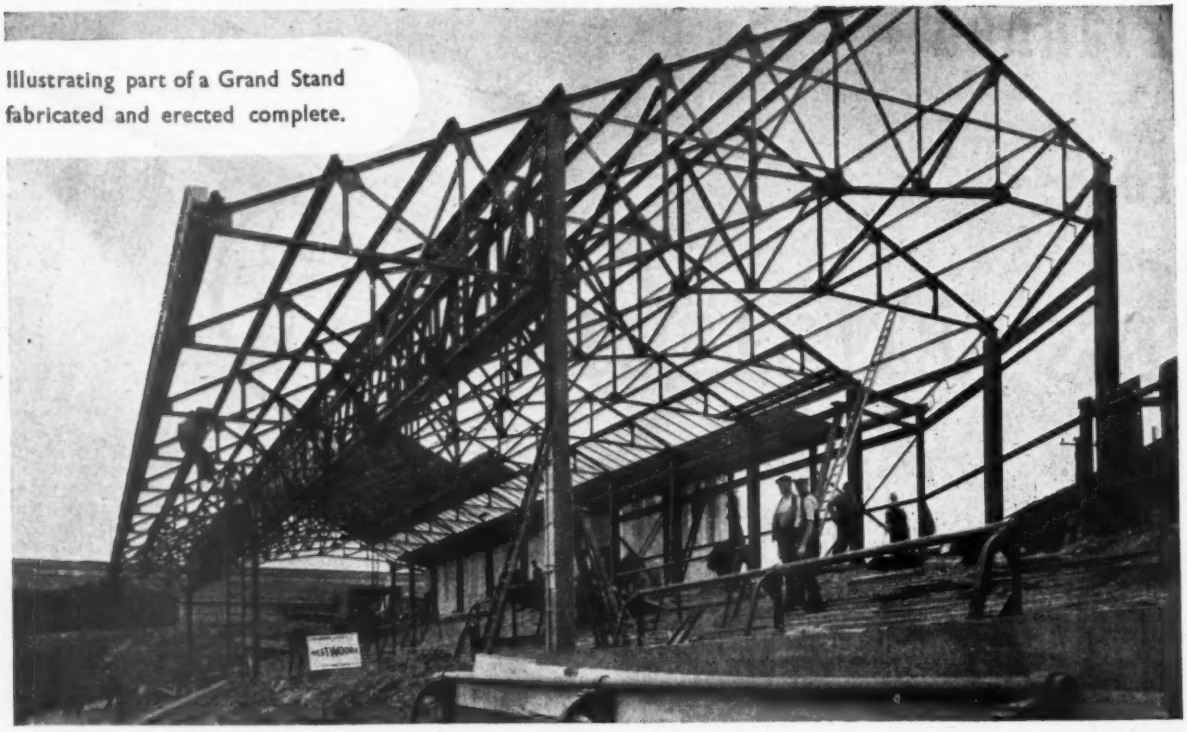
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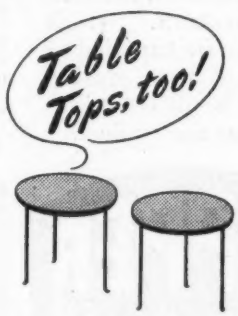
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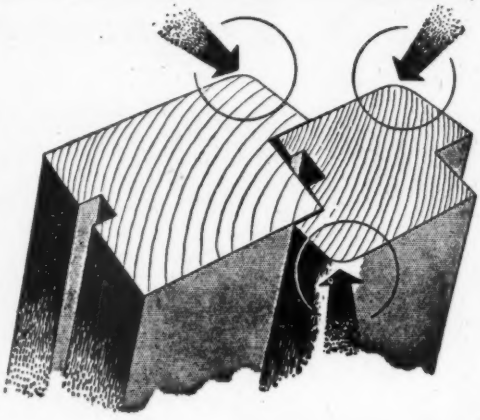
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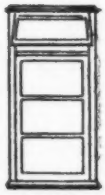


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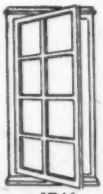


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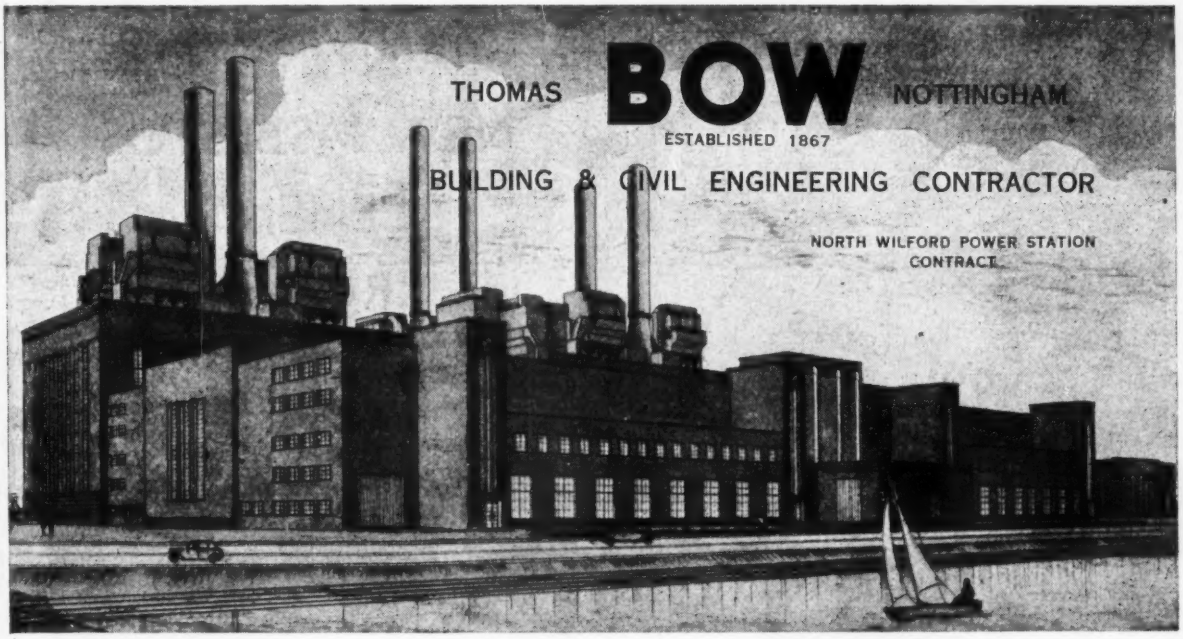
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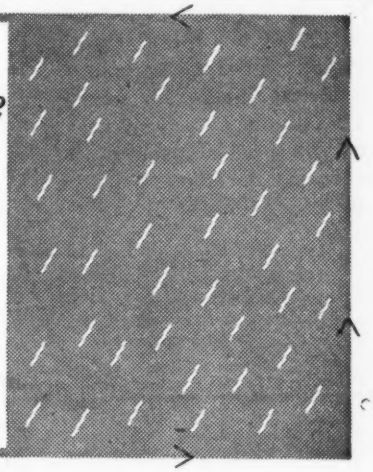
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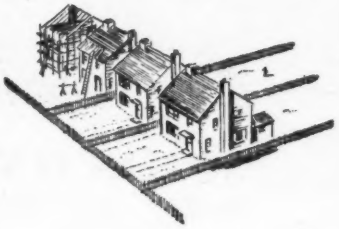
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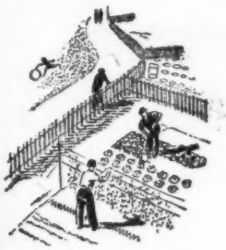
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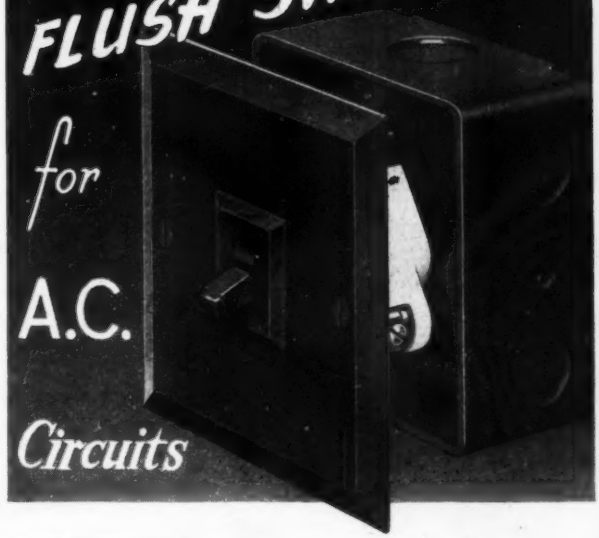
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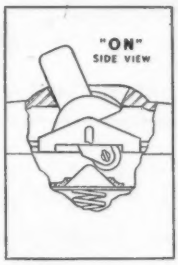
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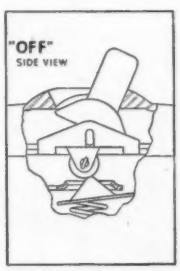
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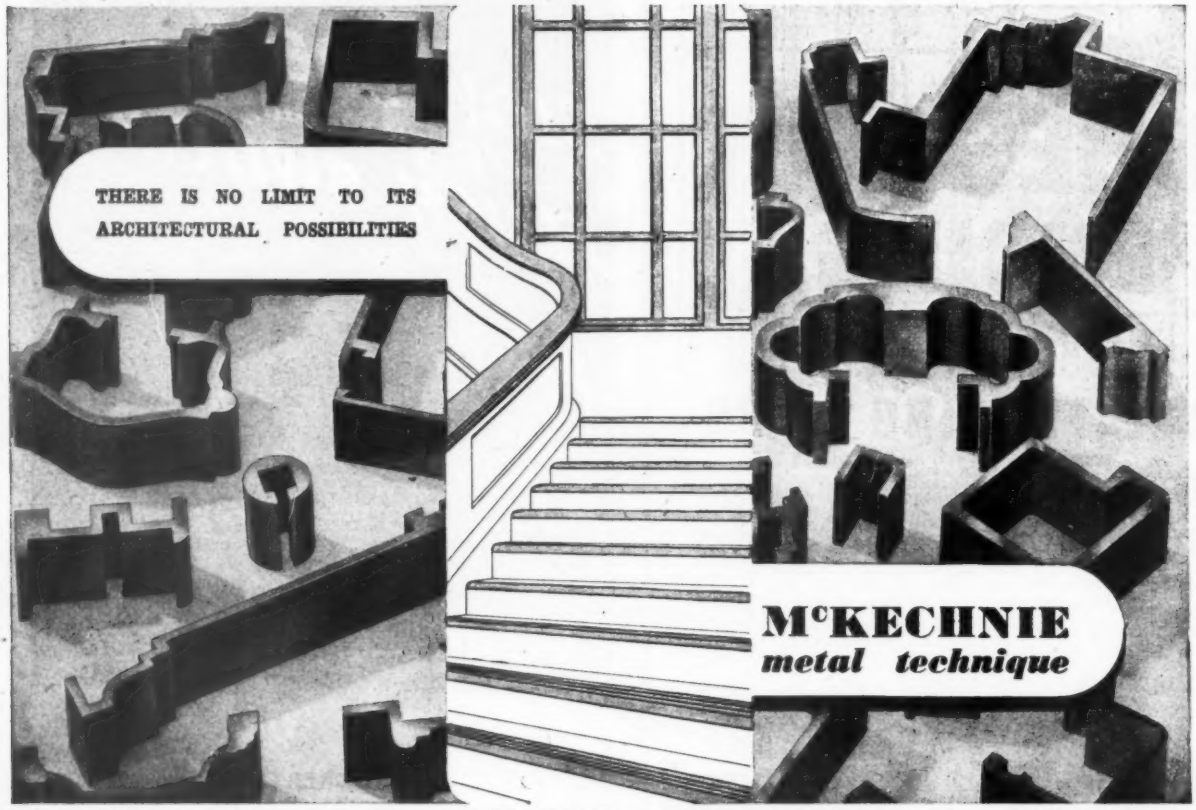
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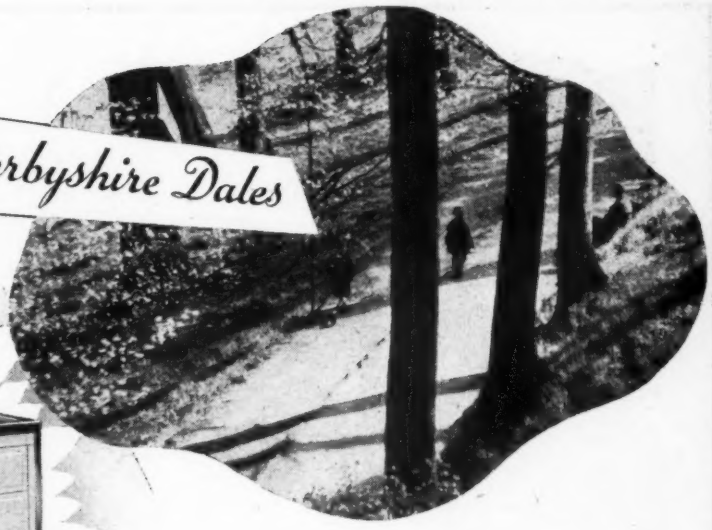
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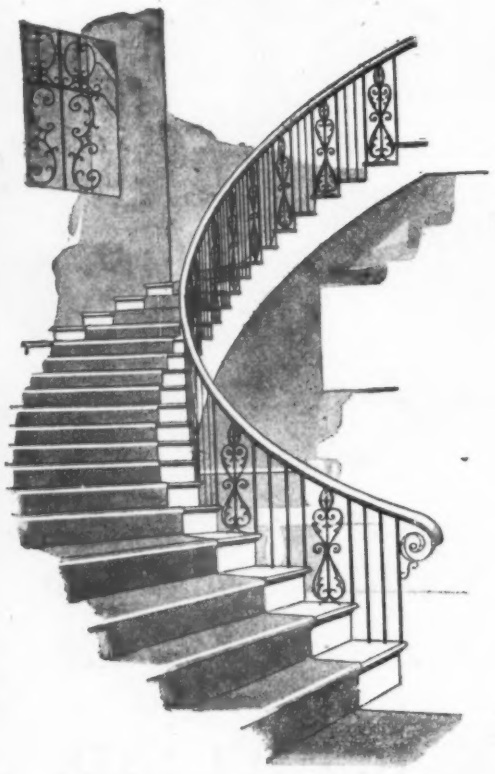
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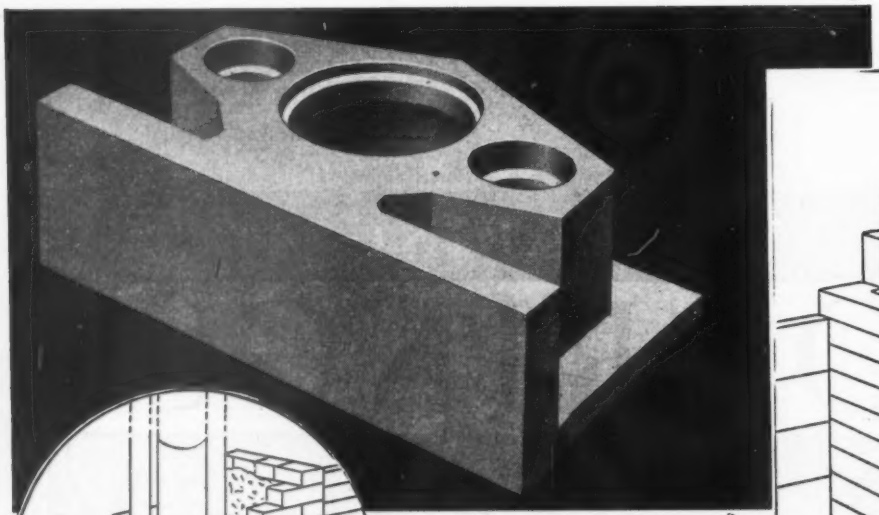
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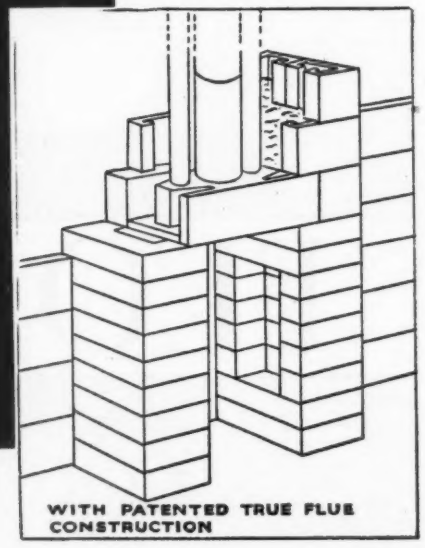
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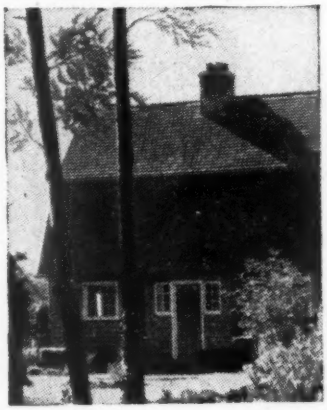
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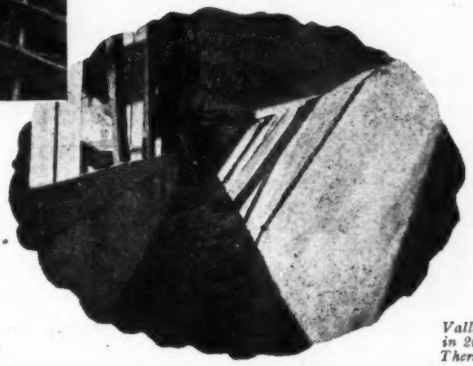
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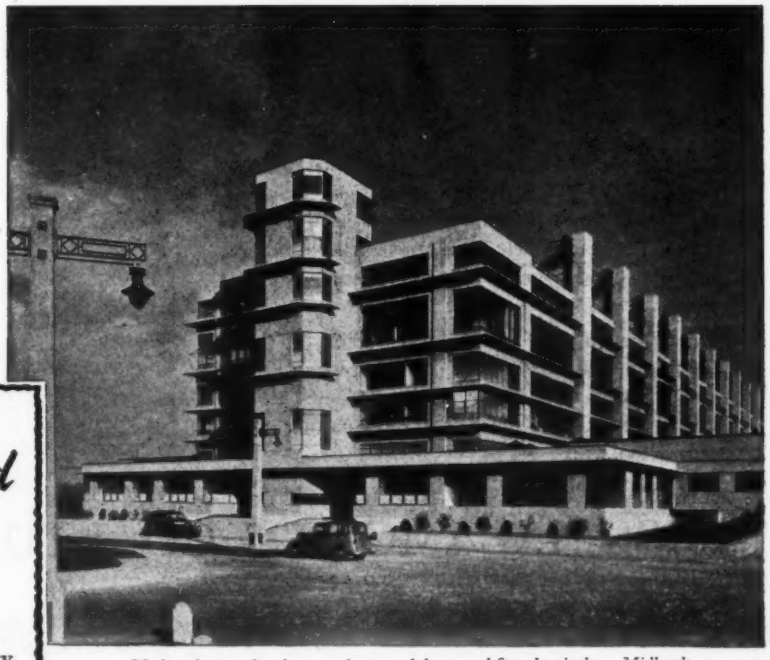
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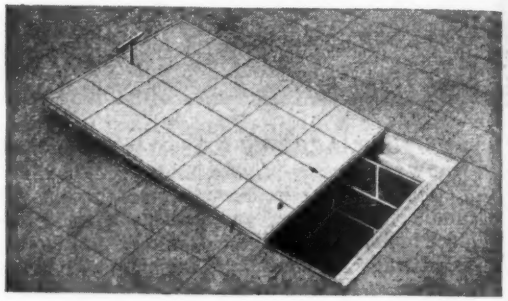
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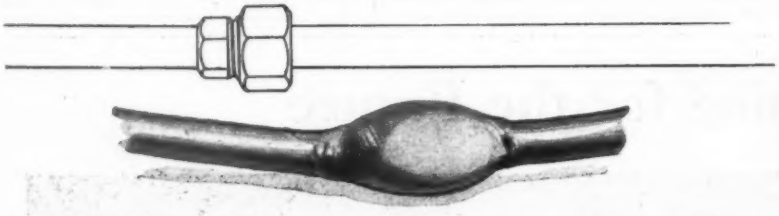
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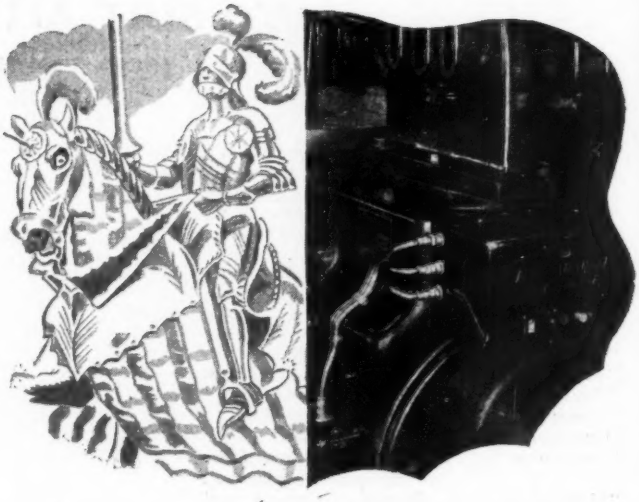
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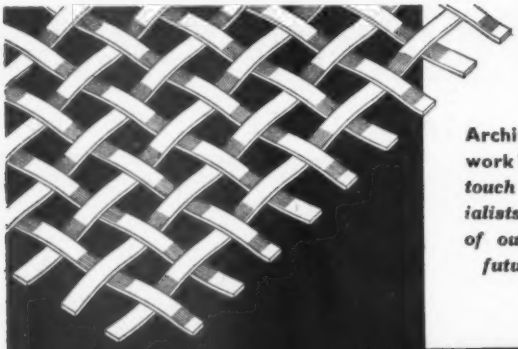
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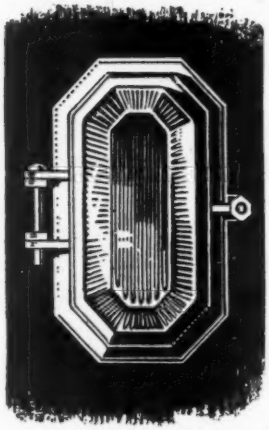
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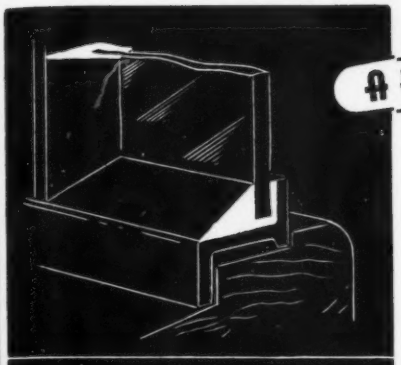
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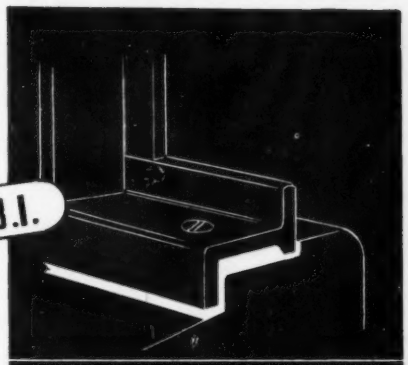
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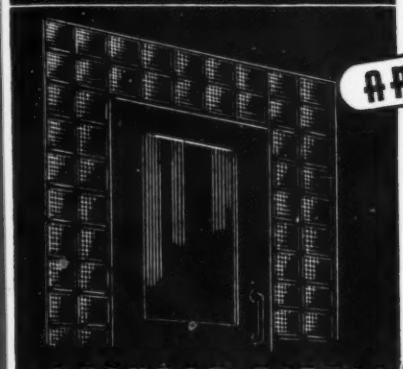
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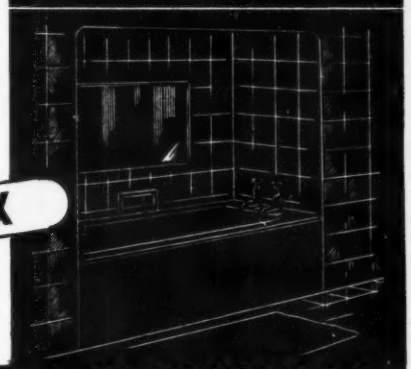
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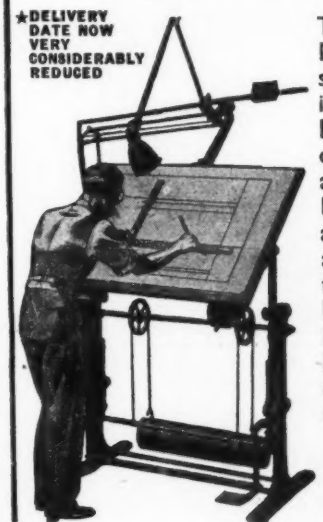
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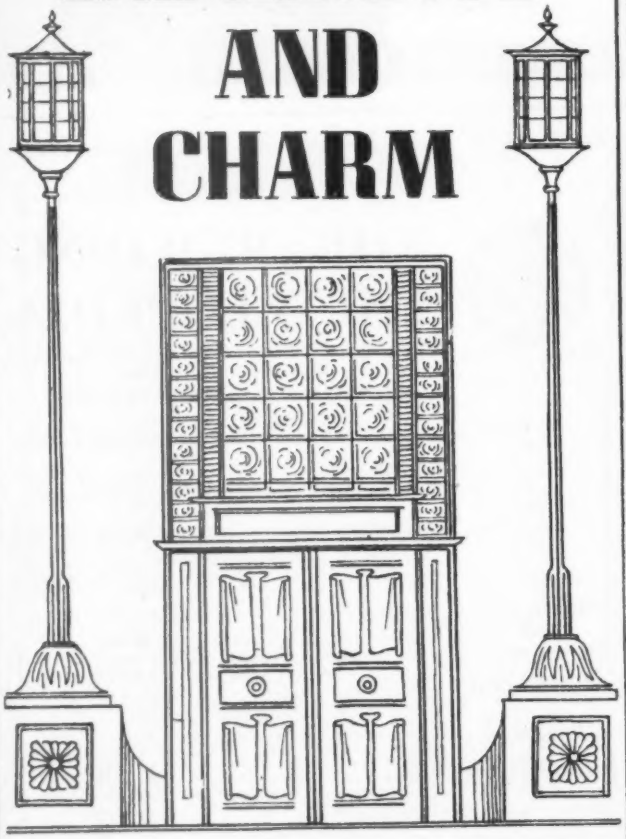
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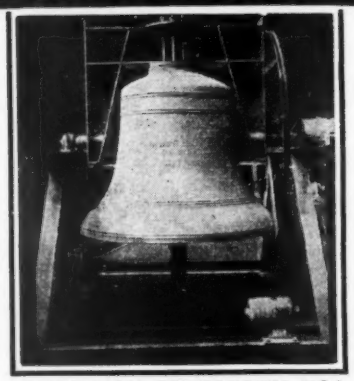
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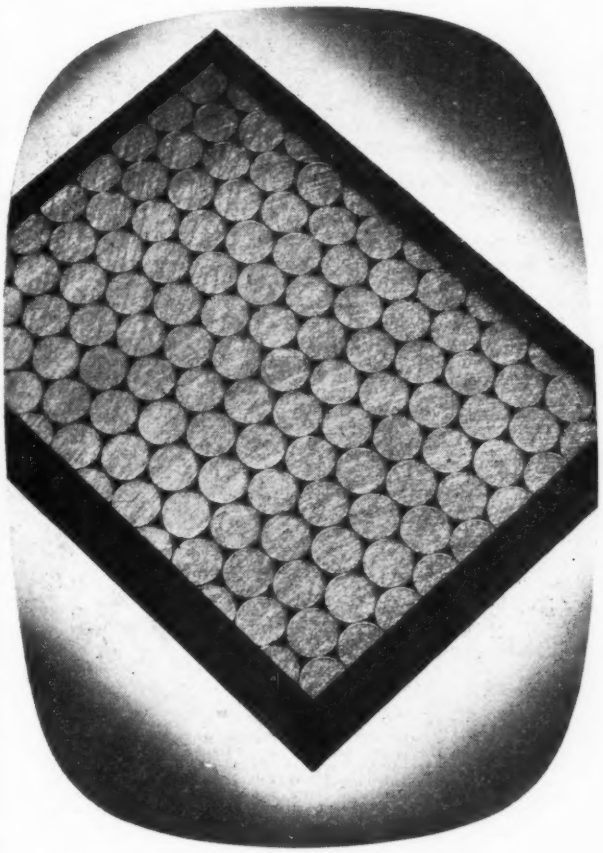
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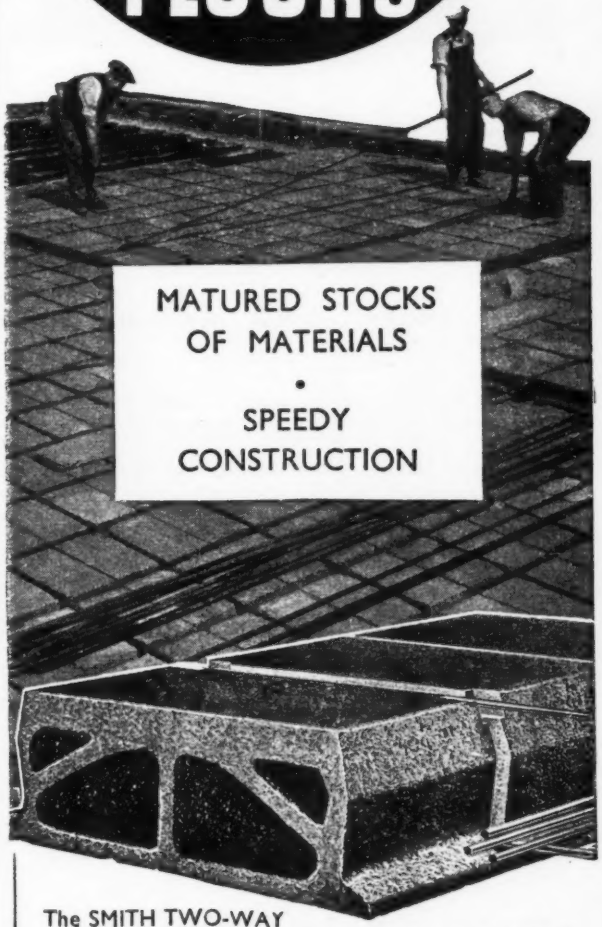
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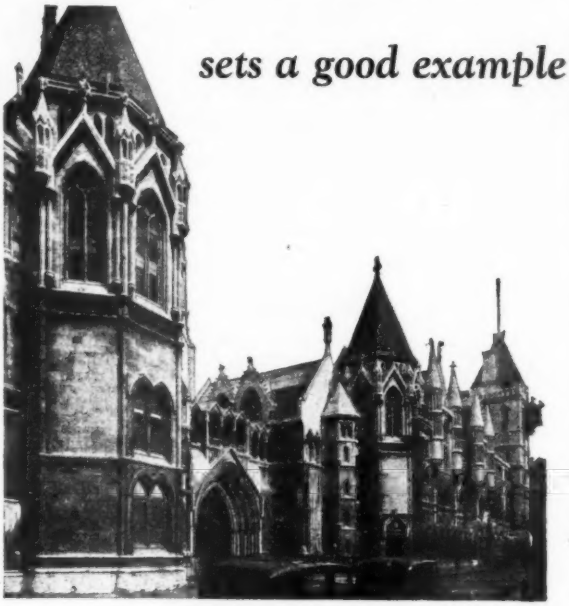
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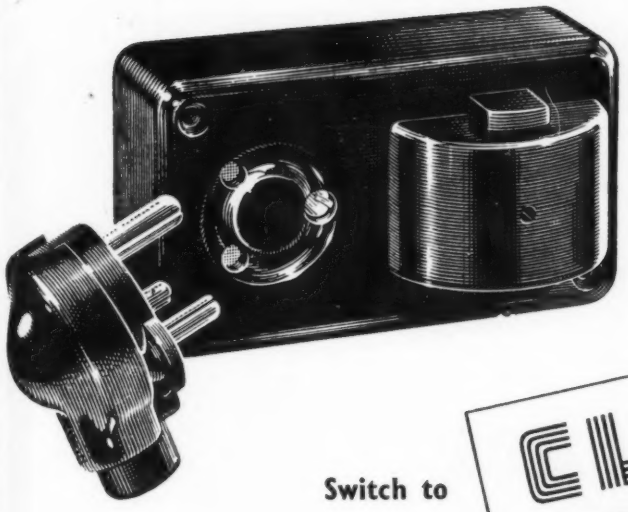
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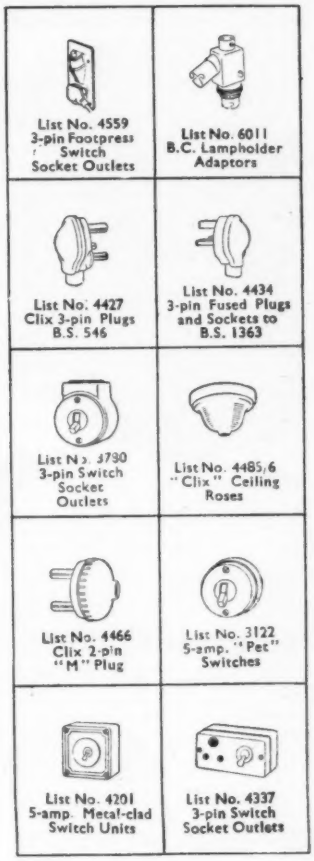
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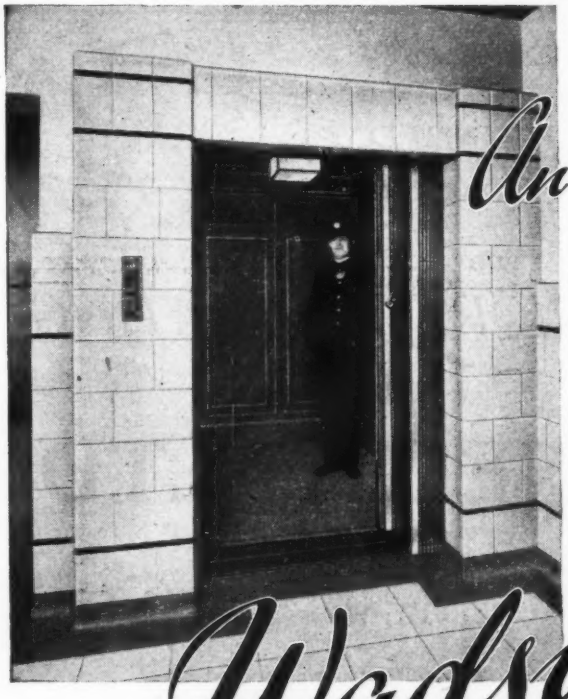
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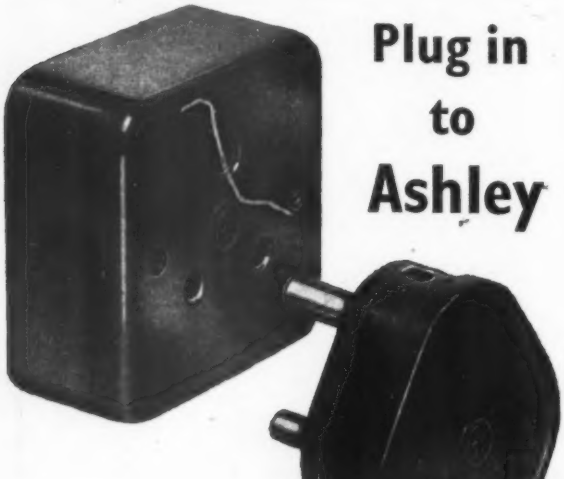


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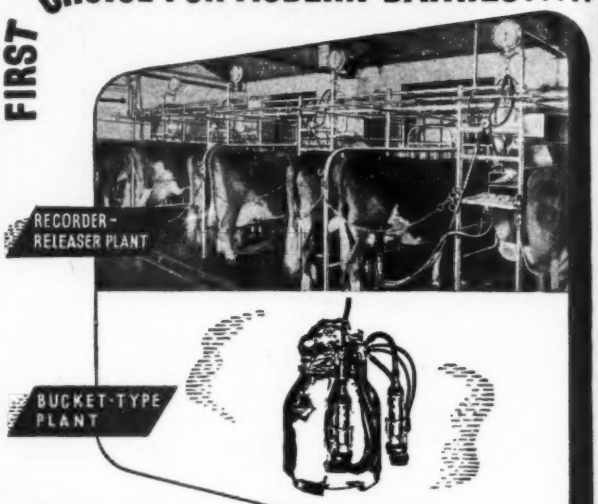
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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WREN PARK, WHITELEAFE. Tel.: Uplands 0935. 991

LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2269) 1046

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointments in the Architects Section of the Chief Engineer's Department in Central London.

(*a*) ASSISTANT ARCHITECTS. Commencing salary will be from £650 per annum, dependent upon qualifications and experience.

Applicants should preferably be Associate Members of the R.I.B.A. They should be capable of preparing working drawings and specifications and should have had good general experience in design and construction.

(*b*) ARCHITECTURAL ASSISTANTS. Commencing salary will be from £500 per annum dependent upon qualifications and experience.

Applicants should be studying for or have passed the Intermediate Examination of the R.I.B.A., be capable draughtsmen and have had several years' experience in an Architect's office.

(*c*) DRAUGHTSMEN. Commencing salary will be from £350 per annum, dependent upon ability and experience.

Applicants should be neat draughtsmen and preferably have had several years' experience in an Architect's office.

The salaries for the above post are provisional and the salaries and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidates will be required to contribute to a superannuation scheme and may be required to pass a medical examination.

Application should be made on forms obtainable from the Establishments Officer, London Electricity Board, 46/47, New Broad Street, London, E.C.2, to whom they should be returned, duly completed, within fourteen days of the publication of this notice. 1355

BOROUGH OF SOUTHGATE.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL STAFF.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:—

(*a*) CHIEF ARCHITECTURAL ASSISTANT. A.P.T., VII-VIII.

(*b*) TWO ARCHITECTURAL ASSISTANTS. A.P.T., V-VA.

(*c*) ARCHITECTURAL ASSISTANT. A.P.T., IV-V.

In each case the appropriate "London weighting" will be paid. For appointment (*a*) the commencing salary will be the first step of A.P.T., VII.

For appointments (*a*) and (*b*) applicants must be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification. For appointment (*c*) candidates must at least be in possession of the Intermediate Examination of that Institute.

Forms of application for each appointment may be obtained from the Borough Engineer and Surveyor, and should be returned clearly marked Appointment (*a*), (*b*) or (*c*), as the case may be, to the undersigned not later than 9 a.m. on Monday, 18th July, 1949.

Canvassing, directly or indirectly, will be a disqualification.

GORDON H. TAYLOR,
Town Clerk.

Town Hall, Palmers Green, London, N.13.
22nd June, 1949. 1421

COUNTY BOROUGH OF WOLVERHAMPTON.
TOWN PLANNING STAFF.

Applications are invited for the appointment of TWO PLANNING ASSISTANTS, Grade A.P.T., III (£450 to £495 per annum), in the department of the Borough Engineer.

Applicants should have had good general planning experience, and preference will be given to candidates holding an appropriate qualification. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the passing of the necessary medical examination, and to one month's notice on either side.

The Council cannot undertake to provide housing accommodation, but successful applicants may, if married, qualify for a subsistence allowance until they are able to find accommodation.

Application, with not more than three testimonials or names for reference, should reach the undersigned in suitably endorsed envelopes not later than Saturday, the 16th July, 1949.

J. BROCK ALLON,
Town Hall, Wolverhampton. *Town Clerk.*
16th June, 1949. 1372

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD., invite applications for the following appointments on the Staff of the Manchester Architects' Department:—

TWO SENIOR ASSISTANT ARCHITECTS. Salary range £675-£775 per annum. Applicants should preferably be Associates of the Royal Institute of British Architects, and must have had considerable experience either in design and planning of modern factories or large shopping emporiums and retail shops. A high standard of architectural design is expected, in addition to administrative ability and experience.

THREE ASSISTANT ARCHITECTS. Salary range £510-£625 per annum. Applicants should preferably be Associates of the Royal Institute of British Architects, and must have a sound architectural experience in planning and design, and be able to undertake work with a minimum of supervision.

THREE ASSISTANT ARCHITECTS. Salary range £470-£535 per annum. Applicants should have a sound knowledge of building construction and architectural design, and be able to produce working drawings and details, under supervision, from sketch plans.

THREE ASSISTANT ARCHITECTS. Salary range £400-£465 per annum. Applicants should be good draughtsmen, and possess a sound knowledge of construction and some general architectural experience.

The above appointments are permanent, and offer prospects of up-grading to competent Assistants. Successful candidates will be required to undergo a medical examination for entry into compulsory superannuation scheme.

Applications, stating age, experience and qualifications, to be addressed to:—The Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4. 1380

COUNTY BOROUGH OF CROYDON.
SCHOOL ARCHITECT'S SECTION.

Applications are invited for the appointment of a JUNIOR ARCHITECTURAL ASSISTANT.

Salary A.P.T., II, £420×£15—£465 p.a.

In addition London weighting of £30 p.a. is paid (£20 p.a. if under 26 years of age).

Inter R.I.B.A. standard, with experience in preparing working drawings.

The appointment is established and superannuable, subject to medical examination.

The Council does not offer living accommodation for this appointment.

Forms of application obtainable from the Chief Education Officer, Katharine Street, Croydon (on sending stamped addressed foolscap envelope), must be returned to him not later than the 16th July, 1949.

Canvassing will disqualify.

E. TABERNER,
Town Clerk.
June, 1949. 1378

COUNTY BOROUGH OF HUDDERSFIELD.
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT ARCHITECTS, Grade VI (£596-£650).

Candidates should be suitably qualified and possess a sound experience in the design, construction and maintenance of all types of buildings carried out by a Local Authority, and be capable of carrying contracts through to completion.

Housing accommodation will be made available, if necessary, and candidates are requested to state in their application if such accommodation is required.

The appointment will be subject to one month's notice on either side, expiring at the end of a calendar month, to the provisions of the local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, suitably endorsed, giving age, qualifications, past and present appointments, and full details of experience, together with the names of three referees, must reach the Borough Architect, High Street Buildings, Huddersfield, not later than the 2nd August, 1949.

Canvassing of members of the Council, either directly or indirectly, will be a disqualification.

HARRY BANN,
Town Clerk.
Town Hall, Huddersfield.
July, 1949. 1473

NEWCASTLE-UPON-TYNE REGIONAL HOSPITAL BOARD.
ST. NICHOLAS' HOSPITAL, NEWCASTLE-UPON-TYNE.

The Board desires to appoint a PRACTISING ARCHITECT or FIRM OF ARCHITECTS for the planning and construction of a new Admission Hospital of 70 beds and two Convalescent Villas, each of 20 beds, at the above Mental Hospital.

Applicants should preferably have had experience in the planning and construction of Mental Hospitals. Particulars of the Board's system of administration for architectural projects, including, *inter alia*, committee organization and arrangements for consultation with the appropriate officers of the Hospital Management Committee, and the Regional Hospital Board, may be obtained from the undersigned.

It is hoped to commence building operations early next year.

Applicants are invited to state their special qualifications for undertaking this project (quoting examples of hospital work executed), and to submit their applications not later than 15th July, 1949, to E. B. Jenkins, Secretary, Newcastle-upon-Tyne Regional Hospital Board, "Dunira," Osborne Road, Newcastle-upon-Tyne, 2.

E. B. JENKINS.
Secretary.
14th June, 1949. 1375

COUNTY BOROUGH OF DERBY.
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff in accordance with the National Scale of Salaries:—

ASSISTANT ARCHITECTS, Grade VI. Salary £595-£660.

Applicants should be Associate R.I.B.A., with a good knowledge of general architectural work.

The appointments will be subject to one month's notice in writing on either side, and to the terms of the National Joint Council's Scheme of Conditions of Service, and the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Forms of application may be obtained from Thos. W. East, F.R.I.B.A., Borough Architect, The Council House, Derby, and should be returned when completed, together with a copy of one testimonial and the names of two persons to whom reference may be made, to arrive not later than Monday, 18th July, 1949.

Canvassing, directly or indirectly, will be a disqualification.

E. H. NICHOLS,
Town Clerk.
1374

BOROUGH OF KETTERING.
APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a CHIEF ARCHITECTURAL ASSISTANT in the Borough Surveyor's Department of the Borough of Kettering, at a salary within Grade VII of the A.P.T. Division of the National Scale of Salaries (£635 per annum, rising by annual increments of £25 to £710 per annum).

Applicants must be Registered Architects, and preference will be given to persons who are Associates of the Royal Institute of British Architects. Applicants must have had experience of local authority housing schemes.

The appointment will be subject to the Local Government Superannuation Act, 1937, and to the provisions of the National Scheme of Conditions of Service, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications, present and previous appointments and experience, together with the names of three referees, must be delivered to the undersigned not later than 20th July, 1949.

D. DUNSFORD PRICE.
Town Clerk.
Town Clerk's Office, High Street, Kettering.
24th June, 1949. 1413

BOROUGH OF STRETFORD.
APPOINTMENT OF ARCHITECTURAL ASSISTANT AND DRAUGHTSMAN (PERMANENT).

Applications are invited for the position of Architectural Assistant and Draughtsman, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade IV of the National Scales of Salary, *viz.*, £480, with three increments of £15 to £525.

Candidates should be experienced in the design and construction of all types of municipal buildings, including housing schemes, blocks of flats, public buildings, etc., and be capable of preparing specifications and quantities, setting out, measuring up and settling accounts. They should have qualifications equivalent to the Intermediate Examination of the R.I.B.A.

The appointment will be subject to one month's notice on either side, to the provisions of the Local Government Superannuation Act, 1937, the National Scheme of Conditions of Service, and to the passing of a medical examination. The appointment is a whole-time one and work in connection with a private practice will be prohibited.

Forms of application may be obtained from the Borough Engineer, Town Hall, Stretford, to whom they should be returned not later than 16th July, 1949.

C. TREWAVAS,
Town Clerk.
Town Hall, Stretford.
30th June, 1949. 1471

AUCKLAND UNIVERSITY COLLEGE (UNIVERSITY OF NEW ZEALAND).

Applications are invited for the following positions in the School of Architecture :—

SENIOR LECTURER IN ARCHITECTURAL DESIGN.

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Salary £625-£725 per annum (N.Z.).

TEMPORARY LECTURERS (TWO) IN ARCHITECTURE.

Salary £625 per annum (N.Z.).

Further particulars and information as to the method of application may be obtained from the Secretary, Association of Universities of the British Commonwealth, 5, Gordon Square, London, W.C.1. The closing date for the receipt of applications is 31st August, 1949. 1390

CITY OF SALFORD.

Applications are invited for the following appointments to the permanent staff in accordance with the Conditions of Service of the National Joint Council :—

(a) SENIOR ARCHITECTURAL ASSISTANT. Salary A.P.T., Grade VI, £595-£660.

(b) ENGINEERING ASSISTANT. Salary A.P.T., Grade V, £520-£570.

(c) QUANTITY SURVEYORS' ASSISTANT. Salary A.P.T., Grade I, £390-£435.

Candidates for appointment (a) should be Associates of the Royal Institution of British Architects or hold an equivalent qualification, and should possess a sound experience in design and construction and also be experienced in the management of building contracts. For appointment (b) candidates should be Associate Members of the Institution of Civil Engineers and/or possess the Testamur of the Institute of Municipal Engineers; and for appointment (c) should have had experience in working up Bills of Quantities.

The appointments will be subject to :—

(a) the provisions of the Local Government Superannuation Act, 1937;

(b) the passing of a medical examination;

(c) the Standing Orders of the Council.

Applications, stating age, qualifications and experience, together with particulars of past and present employment—accompanied by copies of two recent testimonials—should be forwarded in envelopes endorsed clearly as to the appointment for which application is submitted, addressed to the City Engineer, Town Hall, Salford, 3, Lancs, so as to be received not later than Friday, 22nd July, 1949.

Applicants must disclose, in writing, whether or not they are related to any member of the Council or an officer of the Authority.

H. H. TOMSON,
Town Clerk.
1432

COUNTY BOROUGH OF ROTHERHAM.
ASSISTANT ARCHITECT.

Applications are invited for the appointment of an Architectural Assistant, in the office of the Borough Engineer, in accordance with Grade VI of the A.P.T. Division of the National Scale of Salaries, namely, £595 to £660 per annum.

Applicants must be Associate Members of the Royal Institute of British Architects, and preferably with experience in the service of a Local Authority.

The architectural work in the department is very varied, and consists of Educational, Housing, Health and other types of Local Authority Buildings, and the volume of work is rapidly expanding.

The post is superannuable, and the candidate selected for appointment will be required to pass a medical examination.

The appointment will be subject to the conditions of service adopted by the Council, and based on the National Scheme of Conditions of Service. It will be determinable by one month's notice on either side.

Applicants must state whether they are related to any member or officer of the Rotherham County Borough Council. Deliberate omission to disclose any such relationship will disqualify any candidate.

Canvassing of members of the Council, whether direct or indirect, will disqualify.

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than the 28th July, 1940.

JOHN S. WALL,
Town Clerk.
Municipal Offices, Rotherham, Yorks. 1442

CITY OF WAKEFIELD.
CITY ENGINEER'S DEPARTMENT.
TOWN PLANNING ASSISTANT.

Applications are invited for the appointment of a Town Planning Assistant, Grade IV (£480-£525). Applicants should be A.M.T.P.I. The appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Candidates must state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed "Town Planning Assistant," stating age, qualifications, present and previous appointments and experience, should be sent, together with copies of two testimonials, to the undersigned not later than Saturday, the 16th July, 1949.

W. S. DES FORGES,
Town Clerk.
23rd June, 1949. 1431

LANCASHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments in the Headquarters' Office of the County Planning Department, County Offices, Preston :—

(a) ASSISTANT COUNTY PLANNING OFFICER (ARCHITECTURE).

The commencing salary will be within the range of £1,200×£75—£1,500 per annum, according to qualifications and experience.

Candidates must possess a Degree or Diploma in Architecture, or have passed the final examination of the Royal Institute of British Architects. Membership of the Town Planning Institute would be an advantage.

It is essential that candidates should have had extensive experience in the detailed planning of residential, industrial and central areas. The successful applicant will also be responsible for the work of the Estate Development Team established by the County Council to carry out, in co-operation with County District Councils, comprehensive schemes for the accommodation of overspill populations from adjacent urban areas by the development of existing townships. Accordingly, practical experience in the development of housing and industrial estates would be an advantage.

(b) DEPUTY ASSISTANT PLANNING OFFICER (URBAN). A.P.T., Grade IX.

The commencing salary will be within the range of £750×£50—£900 per annum, according to qualifications and experience.

Candidates should possess one or more of the following or equivalent qualifications—a University Degree in Engineering, A.M.T.P.I., A.M.I.C.E., A.R.I.C.S., A.M.I.Mun. E.

Candidates should have had practical experience in the formulation of planning schemes of large urban areas forming part of an entire region or county; should be familiar with the requirements of the Minister under the Circulars and Orders issued in conjunction with the Town and Country Planning Act, 1947, and should also have had practical experience of development control.

The successful applicant will be required to supervise the preparation of the statutory County Map and Town Maps for Lancashire.

(c) DEPUTY ASSISTANT PLANNING OFFICER (RURAL). A.P.T., Grade IX.

The commencing salary will be within the range of £750×£50—£900 per annum, according to qualifications and experience.

Candidates should possess one or more of the following or equivalent qualifications—A.M.T.P.I., A.I.L.A., A.R.I.C.S. (Land Agency Division).

Applicants should possess ability for designing landscape features associated with development of the countryside, including location and layout of rural housing and other buildings.

The successful applicant will be required to deal with the preservation of natural amenities according to the powers contained in the Town and Country Planning Act, 1947, including Tree Preservation Orders and the control of mineral workings, and will be employed on the Development Plan applied to rural areas.

The appointments will be subject to the Scheme of Conditions of Service of the National Joint Council and to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, experience and present salary, together with the names and addresses of two persons to whom reference may be made, should be forwarded to the County Planning Officer, County Offices, Preston, as soon as possible, but in any event not later than Saturday, the 16th July, 1949. Applicants should state clearly for which appointments they wish to be considered.

R. H. ADCOCK,
Clerk of the County Council.
County Offices, Preston. 1434

BRANDON AND BYSHOTTLES URBAN DISTRICT COUNCIL.
ARCHITECT'S DEPARTMENT.
ARCHITECTURAL ASSISTANTS.

Applications are invited for the appointment of Architectural Assistants in the Architect's Department of the above Authority, at a salary in accordance with Grade IV (£480-£525+£15), or Grade V (£520-£570+£15 (2)+£20), according to qualifications and experience, of the A.P.T. Division of the Scale of Salaries of the National Joint Council for Local Authorities' Administrative, etc., Services.

Applicants must have a knowledge of design and construction of modern buildings and unit development, and should have had several years' experience in an Architect's office.

The appointment is temporary, will be terminable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937.

Canvassing, either directly or indirectly, will disqualify, and applicants must disclose in writing whether to their knowledge they are related to any member or to the holder of any senior position under the Council.

Applications, giving full details of age, present position and salary, qualifications and experience, together with the names and addresses of two persons to whom reference may be made, should be made to the undersigned, to be received not later than Monday, the 11th July, 1949.

F. HEDLEY, A.R.I.B.A.,
Architect.
Architect's Department, Council Offices, Langley Moor, Durham.
28th June, 1949. 1457

BOROUGH OF HESTON AND ISLEWORTH.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor :—

(a) SENIOR ARCHITECTURAL ASSISTANT. Salary in accordance with Grade VI of the A.P.T. Division, at the rate of £595×£20×£20×£25—£660 per annum, plus London weighting of £30 per annum.

Applicants must hold the examination qualification for the Associateship of the Royal Institute of British Architects or a University degree or diploma in architecture approved by the Institution.

Applicants must have had good experience in architectural design of a general character, and preference will be given to candidates experienced in housing and other local government work.

(b) GENERAL ARCHITECTURAL ASSISTANT.

Salary in accordance with Grade III of the A.P.T. Division, at the rate of £450×£15—£495 per annum, plus appropriate London weighting.

Applicants should have good architectural experience, and should have passed the Intermediate Examination qualifying for Associate Membership of the Royal Institute of British Architects.

Preference will be given to candidates who have had experience in the preparation of working and detail drawings in connection with housing and other local government work.

The appointments are to established posts and subject to the National Scheme of Conditions of Service. Forms of application may be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, Middlesex, by sending a stamped addressed envelope.

Application on the forms provided, endorsed (a) "Senior Architectural Assistant," or (b) "General Architectural Assistant," to be delivered to the Borough Surveyor not later than noon on 25th July, 1949.

Canvassing will disqualify.

HAROLD SWANN,
Town Clerk.
June, 1949. 1452

STANDISH-WITH-LANGTREE URBAN DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL AND ENGINEERING ASSISTANTS.

Applications are invited for the following appointments to the Staff of the Engineer and Surveyor's Department :—

(1) ARCHITECTURAL ASSISTANT for Capital Programme.

Salary, Grade IV of A.P.T. Division of National Scale of Salaries (£480-£525).

Qualifications : Experience in preparation of drawings, specifications and quantities for, and the supervision of building works normally undertaken by a local authority, particularly in regard to Housing Schemes. Preference will be given to those who have qualified or partially qualified by passing the examination of an appropriate professional institution.

(2) ENGINEERING ASSISTANT.

Salary, Grade III of A.P.T. Division of National Scale of Salaries (£450-£495).

Qualifications : General experience in Municipal Engineering work, and be neat draughtsmen and accurate Surveyors and Levellers. Preference will be given to candidates holding the whole or parts of the Testamur of the Institution of Municipal Engineers.

The appointments will be subject to the provisions of the National Scheme of Conditions of Service and to the Local Government Superannuation Act, 1937.

The Council is prepared, if required, to offer housing accommodation when available.

Applications, stating position applied for, together with age, qualifications and experience, and the names of two referees, must be delivered to the undersigned not later than Monday, 25th July, 1949.

D. CHISHOLM,
Clerk of the Council.
Council Offices, Standish, Lancashire. 1456

BOROUGH OF ALTRINCHAM.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above permanent appointment, in the Borough Surveyor's Department, at a salary in accordance with Grade III, A.P.T. Division of the National Scale of Salaries (£450, by annual increments of £15 to £495).

The appointment will be subject to the National Joint Council's Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, to the passing of a medical examination, and to one month's notice on either side.

Applicants should have passed the Intermediate examination of the R.I.B.A. and be used to preparing working and detail drawings and be good draughtsmen.

Applications, stating age, qualifications and experience, together with the names of two persons to whom reference may be made, should be delivered to the undersigned in an envelope endorsed "Architectural Assistant," not later than 16th July, 1949.

Candidates are required to disclose in writing whether to their knowledge they are related to any member of the Council or holder of any senior office under the Council.

Canvassing, either directly or indirectly, will disqualify.

A. GLOSSOP,
Town Clerk.
Town Hall, Altrincham.
1st July, 1949. 1463

LONDON COUNTY COUNCIL.
PLANNING STAFF.

Vacancies in the following grades (some permanent) :—

PLANNING OFFICER, Grade I, £840 to £960 a year.

PLANNING OFFICER, Grade II, £700 to £840 a year.

PLANNING OFFICER, Grade III, £550 to £700 a year.

TECHNICAL ASSISTANT (*a*), £440 to £580 a year.

TECHNICAL ASSISTANT (*b*), 55s. to 167s. 6d. a week.

Candidates for Grade III positions and above should possess architectural, surveying or town planning qualifications, and will be engaged on either (*a*) Research; (*b*) Development Plan, and Survey; (*c*) Development applications, or (*d*) Reconstruction Areas and detailed planning.

Full particulars and forms of application obtainable from the Architect to the Council (AR/P/P), The County Hall, Westminster Bridge, S.E.1 (enclose stamped addressed foolscap envelope). Canvassing disqualifies. (193) 899

CITY OF COVENTRY.

Applications are invited for the following whole-time appointments on the staff of the City Architectural Department :—

(*a*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., VII, commencing at £635 per annum and rising to £710 per annum.

(*b*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., V, commencing at £520 per annum and rising to £570 per annum.

(*c*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., IV, commencing at £480 per annum and rising to £525 per annum.

Applicants for (*a*), (*b*) and (*c*) should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

(*d*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects.

(*e*) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., II, commencing at £420 per annum and rising to £465 per annum.

(*f*) ONE ARCHITECTURAL DRAUGHTSMAN. Salary on Grade A.P.T., I, commencing at £390 per annum and rising to £435 per annum.

Applicants should be experienced draughtsmen, capable of preparing scale plans of existing buildings. The appointment will be of a duration of not less than two years.

(*g*) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., VII, commencing at £635 per annum and rising to £710 per annum.

Applicants should be members of the Royal Institute of Chartered Surveyors (Quantities Division), and should have a wide experience of all branches of Quantity Surveying appertaining to the work of a Local Authority.

(*h*) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., IV, commencing at £480 per annum and rising to £525 per annum.

In certain circumstances, housing accommodation may be made available for the successful applicants in the cases of (*a*), (*b*) and (*g*).

Salary increments are subject to satisfactory service.

The posts are subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's Medical Referee. The successful male applicants will be required to contribute to the Municipal Officers', Widows' and Orphans' Pension Fund.

Applications for all the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than ten days after the publication of this advertisement.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON,
City Architect.

1a, Warwick Row, Coventry.
30th June, 1949. 1343

HAMPSHIRE COUNTY COUNCIL.

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT, Grade VII. Salary £635 × £25—£710 per annum.

Candidates must be Registered Architects, preferably A.R.I.B.A., with experience in design and construction of Public Buildings, including schools.

The appointment will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination. In approved cases the County Council are prepared to assist newly appointed members of the staff to meet removal and other expenses.

The appointment is terminable by one calendar month's notice on either side.

Applications should be made on forms to be obtained from the County Architect, The Castle, Winchester, to whom they should be returned not later than the 16th July, 1949.

G. A. WHEATLEY,
Clerk of the County Council.

The Castle, Winchester.
17th June, 1949. 1379

(By permission of the Ministry of Labour and National Service under the Control of Engagement Order.)

METROPOLITAN BOROUGH OF HAMPSTEAD.
ARCHITECTURAL ASSISTANT (TEMPORARY).
JUNIOR ARCHITECTURAL ASSISTANT (MALE) (PERMANENT).

Applications are invited for the following appointments in the Housing Architect's Section of the Borough Engineer and Surveyor's Department :—

(*a*) ARCHITECTURAL ASSISTANT (Temporary). Salary in accordance with Grade IV of the A.P.T. Division of the National Scales of Salaries, *viz.*, £480 per annum, rising to £525 per annum, plus London area weighting £30 per annum. Age limit: 45 years of age on 1st January, 1949. Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects or have made marked progress towards obtaining a professional qualification, and should have had experience in general architectural work, including housing. Applications, stating (*a*) age, (*b*) examination qualifications, (*c*) present and past appointments, with dates and salaries, (*d*) detailed particulars of experience and accompanied by copies of three recent testimonials, must be delivered to me in a sealed envelope endorsed "Architectural Assistant," not later than 15th July, 1949.

(*b*) JUNIOR ARCHITECTURAL ASSISTANT (Male) (Permanent). Salary in accordance with the General Division of the National Scales of Salaries, *viz.*, commencing salary at age 16 years £135 per annum, rising by annual iprements to £385 per annum. In addition, London area weighting will be paid at the rate of £10 per annum for ages 16 years to 20 years, and £20 per annum for ages 21 years to 25 years, and £30 per annum for ages 26 years and over. Preference will be given to applicants who have made some progress towards obtaining a professional qualification. Applications, stating age and particulars of education and experience, if any, and accompanied by copies of not more than two recent testimonials, must be delivered to me in a sealed envelope endorsed "Junior Architectural Assistant," not later than 15th July, 1949.

The above appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and candidates must disclose in writing whether, to their knowledge, they are related to any member or senior officer of the Council.

These appointments will be subject to the Council's usual conditions of service, including, in the case of (*b*) above, the satisfactory passing of a medical examination, and will be terminable by one calendar month's notice on either side.

Canvassing will disqualify.

The Council is not able to assist in the provision of housing accommodation.

P. H. HARROLD,
Town Clerk.

Town Hall, Haverstock Hill, N.W.3.
June, 1949. 1450

STEVENAGE DEVELOPMENT CORPORATION.

Applications are invited for the following posts in the Department of Architecture and Planning (Chief Architect and Planner, Clifford Holliday, M.Arch. F.R.I.B.A., M.T.P.I.) :—

ASSISTANT ARCHITECTS. Grade IV. Salary range, £550-£750. Applicants should be fully qualified architects and have completed a degree or diploma course at a recognized school of architecture.

ASSISTANT ARCHITECT PLANNERS. Grade IV. Salary range, £550-£750. Applicants should be fully qualified architects and in addition should be members of the Town Planning Institute or have completed a degree or diploma course in town planning, and will be required to work as members of the Planning team in this Department.

TWO JUNIOR ARCHITECTS. Grade V(b), £465-£525.

ONE JUNIOR ARCHITECT. Grade V(a), £400-£465.

ONE JUNIOR PLANNER. Grade V(a), £400-£465.

Candidates for V(b) posts should have either passed the R.I.B.A. Final examination or have completed a degree or diploma course at a recognized school of architecture.

Candidates for the planning post, Grade V(a), should have passed the Intermediate examination of the Town Planning Institute, and have had some practical experience of town planning.

Selected candidates will be required to contribute to a Local Government superannuation fund or an insurance scheme.

Relationship to any member of the Corporation or staff must be disclosed by applicants.

Canvassing, directly or indirectly, of members or staff of the Corporation will disqualify.

Forms of application may be obtained from the Chief Administrative Officer, Stevenage Development Corporation, Aston House, Aston, near Stevenage, Herts., and should be returned not later than 22nd July, 1949. 1452

KENT EDUCATION COMMITTEE.
MEDWAY COLLEGE OF ART, EASTGATE, ROCHESTER.
DEPARTMENT OF ARCHITECTURE.

Principal: A. L. REEVE, A.R.C.S.(Lond.).

Part-time STUDIO MASTERS required from September next, for periods varying from one to three days weekly.

Salary rates approximating to £4 per day of 5½ hours, plus travelling expenses.

Letters of application, giving details of training and experience, should be sent to the Principal as soon as possible. 1449

LONDON ELECTRICITY BOARD.

Applications are invited for the following appointment in the Architect's Section of the Chief Engineer's Department in Central London :—

QUANTITY SURVEYOR. Commencing salary will be from £700 per annum.

Applicants should preferably be Chartered Quantity Surveyors, and have had considerable experience in a Quantity Surveyor's office.

Applicants should be competent to take responsibility for the preparation of Bills of Quantities, Estimates, Measurement of Works on site, preparation of Interim Certificates and checking of final accounts.

The salary for the above post is provisional and the salary and conditions of employment will be in accordance with those laid down from time to time by the appropriate negotiating body.

The successful candidate will be required to contribute to a superannuation scheme and may be required to pass a medical examination.

Application should be made on forms obtainable from the Establishments Officer, London Electricity Board, 46/47, New Broad Street, London, E.C.2, to whom they should be returned, duly completed, within fourteen days of the publication of this notice. 1356

CHESHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
APPOINTMENT OF PLANNING STAFF.

Applications are invited for the following appointments, which are on the permanent establishment of my department.

The posts are subject to the Local Government Superannuation Act, 1937, and the successful applicants will be required to act under the direction of the County Planning Officer and in the case of area appointments, under the direction of the Area Planning Officer, in the preparation of a development plan for the county and the control of development under the Town and Country Planning Act, 1947.

(*a*) SENIOR PLANNING ASSISTANT. Headquarters, Bridgegate House, Lower Bridge Street, Chester. Salary A.P.T., V-VI (£520-£660)

Applicants should be Corporate Members of the Town Planning Institute, and preference will be given to those possessing additional recognized qualifications in architecture or engineering. They must also have had considerable experience in all aspects of statutory planning, development control, and planning procedure.

(*b*) PLANNING ASSISTANTS. Salary A.P.T., III-IV (£450-£525).

Applicants for these positions should have obtained the Intermediate examination (or equivalent) of one of the recognized institutes, and preference will be given to candidates who have had some training in architecture and are experienced in town and country planning.

The successful applicants will be stationed at Chester and Altrincham, and applications should indicate the applicant's preference.

Forms of application, together with details of the duties and conditions attaching to the appointments, may be obtained from me on receipt of a stamped and addressed foolscap envelope.

The last date for the receipt of completed applications is Saturday, 30th July, 1949.

KENNETH O. MALE,
County Planning Officer.

Bridgegate House, Lower Bridge Street, Chester. 1377

Applications are invited for filling vacancies in the South-Eastern Regional Office at Tunbridge Wells.

MINISTRY OF WORKS DIRECTORATE GENERAL OF WORKS.

Architectural Draughtsmen, having had a full period of recognized training and experience in the preparation of drawings for good class building work. The work is varied and not confined to standard schemes. Starting pay will be assessed according to age, qualifications and experience within a scale rising to £495 per annum.

Applications, stating age, present and previous appointments, training qualifications, etc., should be sent to the Assistant Regional Director (Administration), Ministry of Works, Government Buildings, Hawkenbury, Tunbridge Wells, Kent. 1096

AMENDED ADVERTISEMENT.
ROYAL BOROUGH OF KINGSTON-UPON-THAMES.
BOROUGH SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grade VA of the A.P.T. Division of the National Scale of Salaries, £550, rising by three annual increments of £20 to £610, plus London weighting (£30). Preference will be given to candidates who are Members of the Royal Institute of British Architects.

The appointment is a permanent one, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and the sucessful candidate will be required to pass a medical examination. The appointment is subject to one month's notice on either side.

Applications, stating age, qualifications and experience, and accompanied by copies of not more than three recent testimonials, must be sent in a sealed envelope endorsed "Architectural Assistant," so as to reach the undersigned not later than 23rd July, 1949.

A. W. FORSDIKE,
Town Clerk.

Guildhall, Kingston-upon-Thames
June, 1949. 1469

GLAMORGAN COUNTY COUNCIL.
HIGHWAYS AND PLANNING DEPARTMENT.

Applications are invited for the following permanent appointments in the County Planning Department, namely :—

AT HEADQUARTERS, COUNTY HALL, CARDIFF.

Appointment (*a*) PLANNING ASSISTANT (Engineering), Grade A.P.T., IV. Salary £480-£525.

(*b*) PLANNING ASSISTANT (Development Control). Up to Grade A.P.T., IV. Salary £480-£525, according to experience and qualifications.

Qualifications :

Appointment (*a*) : Applicants must have passed Final Examination of Institution of Civil Engineers or Institution of Municipal Engineers.

Appointment (*b*) : Applicants must have passed the Final Examination of the Royal Institution of Chartered Surveyors or the Town Planning Institute. Applicants who have passed only the Intermediate Examination of these bodies will be entitled to apply, but the maximum salary paid will be in accordance with Grade A.P.T., III, £450-£496.

The appointments will be subject to the National Scheme of Conditions of Service, to the staffing regulations of the County Council from time to time in force, to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, experience and present salary, accompanied by copies of two testimonials, should be sent to the County Planning Officer, Mr. E. John Powell, M.I.C.E., County Hall, Cardiff, and received not later than 18th July, 1949.

"Inserted by permission of the Ministry of Labour and National Service, under the Control of Engagements Order, 1947."

Dated this 29th day of June, 1949.

A. CLIFFORD WALTER,
Deputy Clerk of the County Council.

Glamorgan County Hall, Cardiff. 1478

COUNTY BOROUGH OF STOCKPORT.
CHIEF PLANNING ASSISTANT.

Applications are invited for the appointment of Chief Planning Assistant, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T., VII (£635-£710 per annum). Applicants must have a qualification in planning and an additional qualification in engineering or architecture will be an advantage.

The appointment will be subject to (*a*) the National Scheme of Conditions of Service, (*b*) the provisions of the Local Government Superannuation Act, 1937, (*c*) the passing of a medical examination.

Applicants must disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

Applications, giving age, qualifications, experience, present and past appointments (with dates), together with copies of not more than three recent testimonials, to be delivered to the undersigned not later than Wednesday, 27th July, 1949.

WM. F. GARDNER, M.I.C.E., A.M.T.P.I.,
Borough Engineer and Surveyor.

Town Hall, Stockport. 1475

COUNTY BOROUGH OF BURNLEY.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments :—

(1) QUANTITY SURVEYOR. Grade VII, £635-£710 per annum.

(2) SENIOR PLANNING ASSISTANT. Grade VI, £565-£660 per annum.

(3) TECHNICAL ASSISTANT for Architectural duties. Grade I, £390-£435 per annum.

Applicants for appointment (1) should be experienced in the preparation of Bills of Quantities, the checking of Interim Valuations, and the settlement of Final Accounts. Preference will be given to Fellows or Professional Associates of the Surveyor's Institution (Quantity Surveyors' Section), and experience with a local authority will be regarded as an advantage.

Applicants for appointment (2) should be Associate Members of the Town Planning Institute and the holding of other qualifications will be an advantage. Experience in a similar capacity in a Planning Office is essential.

Applicants for appointment (3) should preferably have had experience in a municipal architect's office.

Conditions of service are those formulated by the National Joint Council, and the appointments are on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937, the successful applicants being required to pass a medical examination. The appointments are terminable by one month's notice on either side.

Canvassing, either directly or indirectly, will disqualify the candidates, and any relationship to a member or senior officer of the Council must be clearly stated in the application.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Burnley, to whom applications should be returned in the envelope provided not later than 9 a.m. on Saturday, the 13th August, 1949.

C. V. THORNLEY,
Town Clerk.

Town Hall, Burnley.
June, 1949. 1474

COUNTY BOROUGH OF ROTHERHAM.
APPOINTMENT OF SECOND PLANNING ASSISTANT.

Applications are invited for the above appointment in the office of the Borough and Waterworks Engineer, at a salary in accordance with Grade VI of the A.P. and T. Division of the National Scale of Salaries, *etc.*, £595-£660 per annum.

Applicants should be suitably qualified, and should preferably have had experience in the Architectural approach to planning.

The post is superannuable, and the candidate selected will be required to pass a medical examination. The appointment will be determinable by one month's notice on either side, and will be subject to the conditions of service adopted by the Council and based on the National Conditions of Service.

Applicants must state whether they are related to any member or officer of the Rotherham County Borough Council, and deliberate omission to disclose any such relationship will disqualify a candidate. Canvassing of members of the Council, whether direct or indirect, will be a disqualification.

Housing accommodation will be provided for the successful candidate if married.

Applications, endorsed "Second Planning Assistant," stating age, qualifications, experience, and accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than 22nd July, 1949.

JOHN S. WALL,
Town Clerk.

Municipal Offices, Rotherham.
10th June, 1949. 1440

CIVIL SERVICE COMMISSION, DUBLIN—POSITIONS VACANT.

(1) SENIOR ARCHITECTURAL INSPECTOR, Department of Local Government.

Essential qualifications : University Degree in Architecture or equivalent, and at least 5 years' high-class experience in a responsible position of Architectural work, including experience in the design and construction of dwellings, the selection of sites, and the layout of housing schemes.

(2) SENIOR ARCHITECTURAL INSPECTOR, Department of Health.

Essential qualifications : University Degree in Architecture or equivalent; at least 5 years' high-class experience in a responsible position of Architectural work, including experience in the design and construction of important buildings and in the selection of sites and their layout; experience in the repair and maintenance of buildings and the checking and adjustment of builders' accounts.

Desirable : Practical experience in the design and construction of hospitals.

(3) ARCHITECTURAL INSPECTOR, Department of Health.

Essential qualifications : University Degree in Architecture or equivalent, and practical experience of architectural work.

Desirable : Practical experience in the design and construction of hospitals.

N.B.—Salary scales (approx.) :—For 1 and 2 above : Man, £960-£1,175; woman, £800-£1,010. For 3 above : Man, £800-£960; woman, £635-£800. Age limits : For 1 above, £30-45 years; for 2 and 3, above, 27-45 years, with extensions.

Application forms and further particulars obtainable from the Secretary, 45, Upper O'Connell Street, Dublin. Latest time for accepting completed application forms : 5 p.m. on the 19th July, 1949. 1439

ESSEX EDUCATION COMMITTEE.
SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART, FOREST ROAD, WALTHAMSTOW, E.17.

Required a SENIOR ASSISTANT IN SURVEYING SUBJECTS. Ability to take classes in Law of Dilapidations, Sale and Mortgage of Land, etc., or Quantity Surveying, will be an advantage. The post is in the Department of Architecture and Building primarily for assisting in the supervision of full-time day and evening courses for the examinations of the Royal Institution of Chartered Surveyors. The College is a recognized centre for full-time preparation for the First and Intermediate Examination of the Royal Institution of Chartered Surveyors in Building Surveying, Quantity Surveying, Valuations and Urban Estate Management.

Salary £700×£25—£800 per annum, plus a London allowance of £36 or £48, according to age, and the usual training and graduate allowances.

Applications (no forms), giving full particulars of training, qualifications, and experience, should be submitted to the Clerk to the Governors, at the College, within two weeks of the appearance of this advertisement.

D. N. BUNGEY,
Acting Chief Education Officer.

County Offices, Chelmsford. 1438

The Board of the Institute of Industrial Art (Instituut voor Kunstnijverheidsonderwijs), Amsterdam, Holland, Gabriël Metsustraat 16, invites applications for the post of

DIRECTOR

of the Institute (salary Fl.7.200-Fl.9,180 (£720-£918) p.a. Applications—by preference, but not absolutely necessary—from Architects, giving full particulars of candidate's training, experience and qualifications, together with foto-material of own designs, should be sent as soon as possible to the Secretary of the Board, Mr. J. van Schayk, Gabriël Metsustraat 16, Amsterdam, Z., Holland. 1479

DENBIGHSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT, WREXHAM.

The above County Council invites applications for the under-mentioned appointments in the County Architect's Department, *viz.* :—

ONE ASSISTANT ARCHITECT. A.P.T. Division, Grade V. Salary £520-£570 per annum.

Preferably Members of R.I.B.A. and Registered Architect. Must have had sound experience in architectural design and in the preparation of working drawings, with full understanding of modern school construction.

TWO JUNIOR ASSISTANT ARCHITECTS. A.P.T. Division, Grade III. Salary £450-£495 per annum.

Preference will be given to applicants who have passed the Intermediate R.I.B.A. Examination. Applicants must be capable of preparing working drawings on details for modern buildings.

TWO JUNIOR ASSISTANT ARCHITECTS (one for Wrexham Office and one for Abergele Office). A.P.T. Division, Grade II. Salary £420 to £465 per annum.

Preference will be given to applicants who are preparing for the Intermediate R.I.B.A. Examination. Applicants must be capable of preparing working drawings and details.

ONE JUNIOR ASSISTANT ARCHITECT. Misc. Division, Grade II. Salary £375-£420 per annum.

Preference will be given to applicants who are preparing for the Intermediate R.I.B.A. Examination. Applicants must be capable of preparing working drawings and have a good knowledge of building construction.

ONE SPECIFICATION WRITER. A.P.T. Division, Grade IV. Salary £480-£525 per annum.

Must have had Architectural and Quantity Surveying experience and be fully capable of preparing detailed specifications for Building and Painting works of all descriptions in connection with the County Council properties.

Applicants will be required to prepare enquiries and deal with Provisional Sum Items in connection with new building projects. They must have a thorough knowledge of current building practice and materials, and will be required to assist generally in the Quantity Surveyor's Department.

The appointments will be subject to termination by one month's notice in writing on either side, and also to the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination, and to reside in such places in the County as the County Council may direct.

Applications, giving age, qualifications and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to the undersigned not later than the 22nd day of July, 1949.

W. J. ROWLANDS,
Acting Clerk of the County Council.

County Offices, Ruthin.
28th June, 1949. 1461

COUNTY BOROUGH OF ROTHERHAM.
APPOINTMENT OF PLANNING ASSISTANT.

Applications are invited for the appointment of a Planning Assistant, at a salary in accordance with Grade III of the A.P. and T. Division of the National Scale of Salaries, *viz.*, £450-£495.

Candidates should be neat draughtsmen, and should preferably have had experience in the planning department of a Local Authority.

The post is superannuable, and the candidate selected will be required to pass a medical examination. The appointment will be determinable by one month's notice on either side, and will be subject to the conditions of service adopted by the Council and based on the National Conditions of Service.

Applicants must state whether they are related to any member or officer of the Council, and deliberate omission to disclose any such relationship will disqualify a candidate. Canvassing of members of the Council, whether direct or indirect, will be a disqualification.

Applications, endorsed "Planning Assistant," stating age and experience, must be accompanied by copies of three recent testimonials, and should be delivered to the undersigned not later than Monday, 25th July, 1949.

JOHN S. WALL,
Town Clerk.

Municipal Offices, Rotherham, Yorks.
June, 1949. 1437

CITY OF WAKEFIELD.
CITY ENGINEER'S DEPARTMENT.
PRINCIPAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of one Principal Architectural Assistant, on Grade A.P.T., VII (£635-£710).

Applicants should be A.R.I.B.A., and have had good experience in Housing and general Municipal work.

The appointment will be subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Candidates must state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed "Principal Architectural Assistant," stating age, qualifications, present and previous appointments, and details of experience, should be accompanied by copies of two testimonials, and sent to me not later than the 23rd July, 1949.

The Council will give favourable consideration to the provision of housing accommodation.

W. S. DES FORGES,
Town Clerk.

28th June, 1949. 1465

ESSEX COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

The Essex County Council invite applications for the following appointments on the established staff of the County Planning Department :—

(*a*) THREE PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade VI, A.P.T.D. (£660 per annum), at Leytonstone and Broomfield.

(*b*) THREE PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade V, A.P.T.D. (£570 per annum), at Leytonstone, Romford and Colchester.

(*c*) PLANNING ASSISTANT, at a salary not exceeding the maximum for Grade IV, A.P.T.D. (£525 per annum), at Braintree.

(*d*) THREE PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade III, A.P.T.D. (£495 per annum), at Broomfield and Leytonstone.

(*e*) TWO PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade II, A.P.T.D. (£465 per annum), at Braintree and Colchester.

The salary in each case will be fixed in accordance with the qualifications and experience of the applicant appointed, but will not exceed the maximum salary for the post concerned as stated above.

Candidates for post (*a*) must be Corporate Members of the Town Planning Institute, and preference will be given to those who possess an additional professional qualification to that stipulated. Previous planning experience in a County Planning Department will be an advantage.

Candidates for post (*b*) must have passed the Intermediate Examination of the Town Planning Institute, or an equivalent Planning examination. Preference will be given to applicants who are Corporate Members of the Town Planning Institute or who possess an additional professional qualification to that stipulated. Previous planning experience in a County Planning Department will be an advantage.

Candidates for posts (*c*) and (*d*) should have had good general experience in a planning office with regard to development control and basic survey. Preference will be given to candidates who have passed the Intermediate Examination of the Town Planning Institute or some other recognized professional institution.

Candidates for post (*e*) should have had good general experience in a planning office with regard to development control and basic survey or should have passed the Intermediate Examination of the Town Planning Institute or some other recognized professional institution.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination to the satisfaction of the Council.

The Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, as from time to time amended, and as adopted by the County Council, is at present applicable to persons appointed on the established staff.

Canvassing, directly or indirectly, will disqualify.

Applications must be made on a form to be obtained from the County Planning Adviser, Broomfield Place, Broomfield, Chelmsford, to whom they should be returned as soon as possible.

JOHN E. LIGHTBURN,
Clerk of the County Council.
1436

BOROUGH OF BEXLEY.
APPOINTMENT OF ARCHITECTURAL STAFF.
BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the under-mentioned appointments :—

ASSISTANT ARCHITECT (Education), within Grade A.P.T., V or Va, according to qualification and experience.

ARCHITECTURAL ASSISTANT (Housing and General), within Grade A.P.T., IV.

In both cases London "weighting" will be paid in addition to the salary.

Form of application, with Conditions of Appointment, may be obtained from the Borough Engineer and Surveyor, Council Offices, Bexleyheath, to whom completed applications must be returned by noon, Saturday, 23rd July, 1949.

Canvassing, directly or indirectly, will disqualify.

W. WOODWARD,
Town Clerk.
1460

COUNTY OF LINCOLN—PARTS OF LINDSEY.
COUNTY ARCHITECT'S DEPARTMENT.

In view of the large building programme the following Senior Architects are required :—

THREE SENIOR ARCHITECTS. Grade VII. £635-£710 per annum.

A subsistence allowance will be paid to married men finding it necessary to obtain lodgings in Lincoln whilst maintaining their homes outside Lincoln of 25s. per week for six months, plus 3rd class railway fare to their home each two months.

Applicants need not have had previous Local Government experience, but preference will be given to Associates of the R.I.B.A.

Applications to be made on the official form, to be obtained from the undersigned, should be returned not later than the 25th July, 1949.

A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I.,
County Architect.
County Offices, Lincoln. 1459

HERTFORDSHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of PLANNING ASSISTANTS (Grade IV, salary £480 to £525 per annum) in the Offices of the County Planning Department, at Hertford and Watford.

Corporate Membership of the Town Planning Institute is desirable. Previous experience in the preparation of a County Survey and Development Plan, and in the control of development, together with skill in draughtsmanship, is essential. Qualifications in architecture, municipal engineering, survey or landscape design will be an advantage.

The appointments are established posts on the permanent Staff of the County Council, and are subject to the provisions of the Local Government Superannuation Act, 1937. Forms of applications are obtainable from the County Planning Officer, County Hall, Hertford, and these are returnable not later than 15th July next. 1464

LONDON COUNTY COUNCIL.
BRIXTON SCHOOL OF BUILDING, FERNDALE ROAD, S.W.4.

Required to commence on 1st September :—

(*a*) SENIOR ASSISTANT. Applicants should have had considerable experience of supervision or control of general construction work either as designer or contractor. Corporate membership of the appropriate professional institution or comparable technical qualifications will be required.

(*b*) Two permanent and two temporary full-time TEACHERS OF BUILDING, ARCHITECTURE AND SURVEYING. Applicants should be members of the appropriate professional institutions or hold comparable technical qualifications.

For all these posts experience in industry, professional practice or teaching will be a recommendation.

Salary for posts (*b*) Burnham Technical Scale, plus London allowance. Salary for post (*a*) £700×£25—£800, plus London allowance, graduate and training additions as appropriate. Application forms and further particulars (stamped addressed foolscap envelope necessary) from the Secretary at the School, returnable by 15th August, 1949. (829) 1454

METROPOLITAN BOROUGH OF FULHAM.
ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments in the Architects' Section of the Housing and Public Buildings Department :—

(*a*) TWO PRINCIPAL ASSISTANTS. A.P.T., Grade VII.

(*b*) TWO ASSISTANT ARCHITECTS. A.P.T., Grade IV/V.

(*c*) ASSISTANT ARCHITECT. A.P.T., Grade III.

Applicants for (*a*) should be Registered Architects, experienced in the planning and design of large schemes of blocks of flats, and capable of carrying out the duties of a Section Leader.

For (*b*) they must be Registered Architects, experienced in the preparation of detailed drawings, and for one of the posts experience in alterations to requisitioned property will be an advantage.

For (*c*) applicants must have good general experience as Architectural Assistants.

Application forms obtainable from me must be returned with copies of not more than three testimonials not later than 18th July, 1949.

CYRIL F. THATCHER,
Town Clerk.
Town Hall, Fulham, S.W.6. 1453

EASTERN REGIONAL HOSPITAL BOARD, SCOTLAND.
APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the appointment of a Quantity Surveyor on the Headquarters staff of the Regional Architect, the salary scale for the post being A.P.T., Grade VI, £595-£660. Candidates should have wide experience in the preparation of Schedules of Quantities, according to the Scottish Mode of Measurement, site measuring, and in settlement of jobbing and final accounts for all trades. Preference will be given to those who are Members of the Royal Institution of Chartered Surveyors, and previous experience of hospital work will be an advantage.

The appointment will be subject to the National Health Service (Scotland) (Superannuation) Regulations, 1948, and the successful candidate will be required to pass a medical examination. The appointment will be terminable by one month's notice on either side.

Canvassing in any form will disqualify.

Applications, stating age, qualifications, experience, past and present appointments, and accompanied by the names and addresses of three referees, should reach the Secretary, Eastern Regional Hospital Board, "Bracknowe," 430, Blackness Road, Dundee, not later than 23rd July, 1949. 1466

METROPOLITAN BOROUGH OF WANDSWORTH.
ARCHITECTURAL ASSISTANT.

Applications are invited for the Established appointment of Architectural Assistant, in the Borough Architect's Department, at a salary in accordance with Grades A.P.T., I, *viz.*, £420-£465 per annum inclusive.

Candidates should be studying for the R.I.B.A. Examinations and have had some experience in general architectural work.

Forms of application may be obtained from the Borough Architect, and must be returned to the undersigned not later than 22nd July, 1949.

R. H. JERMAN,
Town Clerk.
Municipal Buildings, Wandsworth, S.W.18.
28th June, 1949. 1472

COUNTY BOROUGH OF DONCASTER.
BOROUGH SURVEYOR AND WATER ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments :—

(*a*) SENIOR ARCHITECT. Grade A.P.T., VII, £635-£710.

(*b*) ARCHITECTURAL ASSISTANT. Grade A.P.T., V, £520-£570.

(*c*) JUNIOR ARCHITECTURAL ASSISTANT. Grade A.P.T., II, £420-£465.

Applicants for appointment (*a*) must be qualified Arcnitects, and the applicant appointed will be responsible for the design and supervision of architectural work carried out by the Department, and the supervision of the Technical Staff of the Works Section of the Department.

Applicants for appointment (*b*) must be qualified Architects and must have had considerable experience in design and construction.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and successful candidates will be required to pass a medical examination.

Applications, suitably endorsed, stating age, details of previous experience and qualifications, accompanied by copies of not more than two recent testimonials, should be addressed to the Borough Surveyor and Water Engineer, 2, Priory Place, Doncaster, and delivered not later than 23rd July, 1949.

H. S. ESSENHIGH,
Town Clerk.
1, Priory Place, Doncaster. 1462

CHESTERFIELD RURAL DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Junior Architectural Assistant, in the Engineer and Surveyor's Department, at a salary of £390, rising by annual increments of £15 to £435 (A.P.T., Grade I).

Applicants should have had a good general training and experience, and preference will be given to those who have passed the Intermediate Examination of the Royal Institute of British Architects.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Applications, giving details of age, general experience, and the names and addresses of two referees, should be sent to the undersigned, endorsed "Junior Architectural Assistant," not later than the 22nd July, 1949.

J. B. WIKELEY,
M.Eng., A.M.Inst.C.E., Barrister-at-Law, Engineer and Surveyor to the Council.
Rural Council House, Saltergate, Chesterfield.
27th June, 1949. 1444

COUNTY BOROUGH OF WEST HARTLEPOOL.
APPOINTMENT OF ASSISTANT ARCHITECTS, GRADES I TO V.

Applications are invited for the appointments of Assistant Architects, in the Borough Architectural Department, at Grades from A.P.T., I, to A.P.T., V, of the National Scales of Salaries.

The appointments are subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services (with the exception of paragraph 39), and the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination.

Applications, stating age, qualifications, previous and present appointments, details of experience, together with copies of recent testimonials, and *stating clearly the grade for which application is made*, are to be sent to S. M. Richmond, F.R.I.B.A., A.M.T.P.I., Borough Architect, Municipal Buildings, West Hartlepool, not later than Monday, the 18th July, 1949.

The Council are prepared to consider the allocation of housing accommodation to the successful applicants if required.

ERIC J. WAGGOTT,
Town Clerk.
Municipal Buildings, West Hartlepool.
June, 1949. 1455

Partnerships and Fianancial

6 lines or under, 10s.; each additional line, 1s. 6d.

OLD-ESTABLISHED Midlands Firm of Architects, having an extensive, interesting, and varied practice, offers a Junior Partnership to a qualified and experienced man following a brief probationary period. Write for interview and send full particulars to Box 1265.

Architectural Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

ARCHITECTURAL ASSISTANT of Intermediate standard, required immediately by Firm of Architects in West End of London; salary according to experience and qualifications. Box 1068.

ARCHITECTURAL ASSISTANTS required immediately for interesting and varied work on Schools, Hospitals, University Buildings, Housing, etc.; salary dependent on experience or qualifications. Apply personally, by telephone or in writing, Pite Son & Fairweather, Chartered Architects, 5, Queen Anne's Gate, Westminster, S.W.1. Whitehall 5576. 1115

NORTH Midlands office requires CHIEF ASSISTANT, experienced in controlling jobs through all stages; partnership follows to suitable applicant. Send particulars to Box 1266.

ASSISTANTS of R.I.B.A. final stage, with some office experience, urgently required; good salaries to keen and energetic workers. Particulars to Naylor, Sale & Widdows, St. Marys Chambers, St. Marys Gate, Derby. 1267

ARCHITECT'S JUNIOR ASSISTANT required. Write, stating age, experience, and salary, to W. Leslie Jones, 87, High Street, Great Missenden, Bucks. 1369

SENIOR ASSISTANT ARCHITECT required for appointment to staff of Development and Research Department; applicants must hold Associateship of R.I.B.A., and be interested and experienced in industrial construction. Applications in writing, stating age, experience, and salary required, to Chief Staff Architect, Ilford, Ltd., Romford, Essex. 1313

SENIOR ARCHITECTURAL ASSISTANT for general practice. Write, giving full details of experience and salary required, to J. C. Prestwich & Sons, M.A., F./A.R.I.B.A., Bradshawgate Chambers, Leigh, Lancs. 1314

TWO ARCHITECTURAL ASSISTANTS required in London office; applicants must be above Inter. standard, and the appointment would be of particular interest to those interested in contemporary design; a 5-day week is operative, and part-time educational facilities may be arranged; upon completion of a qualifying period applicants will be invited to join a Bonus and Superannuation Scheme. Box 1348.

ARCHITECTURAL ASSISTANT required by London firm of Architects and Consulting Engineers; good experience on working drawings essential; knowledge of secondary schools an advantage; age preferably between 32 and 36; minimum salary £700. Apply, with concise particulars, to Box 1391.

ESTABLISHED Firm of Architects require Senior and Intermediate ASSISTANTS in West End office; work includes large contracts for Flats, Schools, Hospitals, etc. Write, stating experience and present salary, to Box 1400.

ARCHITECTURAL ASSISTANT required, preferably with industrial experience. Write to Employment Manager, Cadbury Brothers, Ltd., Bournville, Birmingham, giving age, qualifications and salary required. 1451

ARCHITECTS.—Scottish Co-operative Wholesale Society, Ltd., has vacancy for a Senior ARCHITECTURAL ASSISTANT (salary grade £490-£590 per annum). Also a few vacancies for ASSISTANTS (salary grade £350-£450 per annum). (All above salaries subject to addition of prevailing cost-of-living bonus.) Apply in writing to Chief Architect, 119, Paisley Road, Glasgow, C.5. 1405

ARCHITECTURAL ASSISTANT (single) required for country town office; office trained; good draughtsman; car owner/driver; experience in outside supervision and specifications; salary £400 to £500 per annum. Details to Box 1396.

ARCHITECT in private practice requires an energetic all round ARCHITECTURAL AND SURVEYING ASSISTANT similarly trained; permanency and partnership to suitable applicant. Apply Box 1382.

ARCHITECTURAL ASSISTANT required for interesting and varied work; must have passed Intermediate Examination. Reply, quoting age and experience, to Personnel Dept., Fort Dunlop, Erdington, Birmingham, 24 1467

BRITISH Oxygen Co., Ltd., require ARCHITECTURAL ASSISTANTS, both qualified and unqualified, for their Head Office in the West End of London; men aged 25/35, experienced in the preparation of surveys, sketch plans, working drawings in connection with industrial buildings; able to supervise work in progress and to prepare reports. Apply, giving details of age, qualifications and experience, etc., to Dept. M.11, Box No. U4462, A.K. Advg., 212a, Shaftesbury Avenue, W.C.2. 1470

EXPERIENCED ASSISTANCE required for Architect's office in Westminster, with general and ecclesiastical practice in London and country; neat draughtsman, with good knowledge of construction and practical control of building contracts. Write Box 1477, stating salary required.

ARCHITECT'S ASSISTANT, Intermediate standard, required immediately in rapidly developing Architectural Department; state training, qualifications, experience, and salary required, to Marcus Leaver & Company, 42, Sackville Street, London, W.1. 1401

ASSISTANT ARCHITECT required for general practice. Reply, stating age, qualifications, experience, and salary required. Johnson & Crabtree, F./P.R.I.B.A., 20, Priory Place, Doncaster. Telephone 3445. 1443

ASSISTANT, salary between £500 and £700 p.a. Eric Lyons & G. Paulson Townsend, Chartered Architects, Mill House, Bridge Road, Hampton Court. 1393

ARCHITECTS require ASSISTANTS; salaries £400-£600, according to experience; permanent and excellent prospects. Stephenson & Gillis, 2, Saville Chambers, North Street, Newcastle. 1447

ARCHITECTURAL ASSISTANT, Final standard only, required in London; experienced in war damage and conversions, both domestic and commercial nature, to include flats, offices and industrial buildings; 5 day week; bonus, superannuation scheme. Box 1441.

Architectural Appointments Wanted

ARCHITECTURAL ASSISTANT (34), 5 years' University college training, seeking further experience in a London office; good draughtsman. Box 318.

CHARTERED ARCHITECT seeks permanent responsible post; 12 years' office experience; salary £750 p.a.; London or South Coast. Box 317.

ARCHITECTURAL ASSISTANT (male, 25), evening student Northern Polytechnic, approaching Intermediate R.I.B.A., with 8 years' varied office experience, excluding war service, seeks permanent position in well-established firm in London; neat, accurate draughtsman; capable of carrying out surveys and preparing working drawings and details; salary required £7 10s. per week. Please reply to Box 316.

Other Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

MEASURING SURVEYOR required for measuring work on site, preparation of interim certificates, and final accounts; applications, stating age, experience and salary required, to Chief Staff Architect, Ilford, Ltd., Romford, Essex. 1313

TAKERS-OFF, ESTIMATORS, urgently required in the W. London area; knowledge of reinforced concrete desirable, but not essential; five-day week. Write, stating age, experience, present position and salary, when available, to Box 1359.

DRAUGHTSMEN (Junior and Senior) required in W. London area; must be neat and accurate workers; knowledge of building construction useful; five-day week. Write, stating age, experience, present position and salary, when available, to Box 1360.

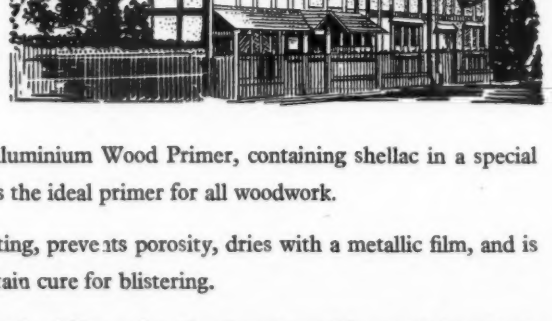
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"Charter" Aluminium Wood Primer, containing shellac in a special oil medium, is the ideal primer for all woodwork.

It is self-knotting, prevents porosity, dries with a metallic film, and is an almost certain cure for blistering.

Where quality, durability and pride of workmanship are all-important, you should use "Charter" Aluminium Wood Primer.

CHARLES TURNER & SON, LTD.

Makers of Quality Paints since 1821.

BLOOMSBURY HOUSE. 165, HIGH HOLBORN, LONDON, W.C.1

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD., invite applications for the following appointment on the Staff of the Manchester Architect's Department :—

ONE ASSISTANT QUANTITY SURVEYOR. Salary range £510 to £625 per annum. Applicants should preferably be Associates of the Royal Institution of Chartered Surveyors, and must have a sound experience in the preparation of Bills of Quantities, measuring and adjusting variations for large commercial buildings, and able to undertake work with a minimum of supervision.

The above appointment is permanent, and offers prospects of up-grading to competent Assistants. The successful candidate will be required to undergo a medical examination for entry into compulsory superannuation scheme.

Applications, stating age, experience, and qualifications, to be addressed to The Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4. 1406

QUANTITY SURVEYORS.—Scottish Co-operative Wholesale Society Ltd., has vacancy for a Senior QUANTITY SURVEYING ASSISTANT (salary grade £490-£590 per annum). (All above salaries subject to addition of prevailing cost-of-living bonus.) Apply in writing to Chief Surveyor, S.C.W.S., Ltd., 119, Paisley Road, Glasgow. 1404

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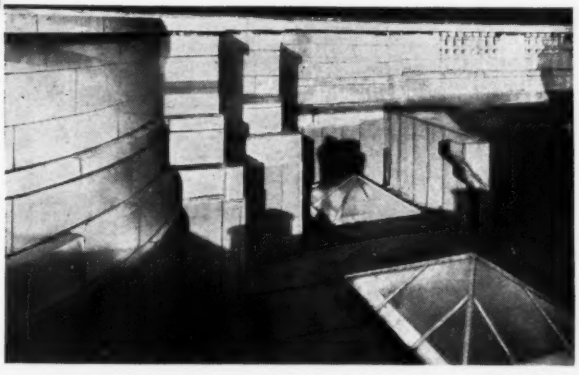


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